

Building MATH FLUENCY

Grade
2

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**Correlated
to State Standards**

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What's in This Book?

Mathematics standards frequently contain terminology such as “numerical fluency,” “computational accuracy,” and “automaticity.” These terms recognize that the ability to compute quickly and accurately aids in higher-level mathematics and problem solving.

The goal of *Building Math Fluency* is to provide students with tools for thinking about computation in logical, strategic ways. Mastery of math facts is facilitated by understanding number relationships. Mastery is further enhanced with sufficient practice.

Strategy Practice

There is a section of strategy practice for each operation presented in this book. These practice pages can be done with students in a whole class or in small groups. Students benefit when teachers and peers model the use of the strategies and verbalize solution strategies aloud.

Subtraction Strategies	
Minus Zero	Subtract 0 from a number and the number stays the same. $9 - 0 = 9$ Subtract 0 from both sides and the number is 0. $0 - 0 = 0$
A Number Minus Itself	Subtract a number from itself and the number is 0. $0 - 6 = 0$
Count Back -1, -2, -3	Count back 1, 2, or 3 units from the number, each at 1, 2, or 3. $12 - 1 = 11$ $17 - 2 = 15$ $17 - 3 = 14$
Count Up	Count up to the difference from the number to find the difference. $17 - 15 = 2$ Count up from 15 to 17.
Think Addition	To subtract, think of the related addition fact. $0 + 2 = 14$ so $14 - 8 = 6$
Tens Partners	If you know the Tens Partners, you can use them to find subtraction facts. $7 + 3 = 10$ so $10 - 7 = 3$
Doubles	If you know the doubles facts, you can use them to find subtraction facts. $6 + 6 = 12$ so $12 - 6 = 6$
Minus Ten	Subtract 10 from a two-digit number by first subtracting the tens and then the ones. $30 - 10 = 20$
Minus Nine	Remember that 5 is just one away from 10. To subtract 9, think 10. See 9: Think 10. See 9: Think 10. See 9: Think 10.
See 9: Think 10.	See 9: Think 10. See 9: Think 10. See 9: Think 10.

Charts of the strategies are presented both as reproducibles and as transparencies at the back of this book.

Name _____

Strategy

Minus Zero

Subtract 0 and the number stays the same.

$4 - 0 = 4$

Subtract 0.

$5 - 0 = \square$ $6 - 0 = \square$

$9 - 0 = \square$ $14 - 0 = \square$

$5 - \square = 5$ $12 - \square = 12$

Find the difference.

$105 - 0 = \square$ $99 - 0 = \square$

$321 - 0 = \square$ $56 - 0 = \square$

Write your own Minus Zero problems.

$\square - 0 = \square$ $\square - 0 = \square$ $\square - 0 = \square$

Fred Fred

Practice pages feature a strategy box and problems to solve using that strategy.

Test Your Skills

The *Test Your Skills* pages provide concentrated fact practice. These pages can be used in a number of ways, as described on page 77. A feature of *Test Your Skills* is the opportunity for students to evaluate their own performance.

Facts Flashcards

Reproducible flashcards for the operations covered in this book are provided. The teacher resource page at the beginning of the section gives suggestions for using the cards to enhance students' mastery of number facts.

Minuends 0 to 7 Name _____ Up State _____

Test Your Skills

$4 - 1$	$7 - 5$	$3 - 3$	$6 - 4$	$6 - 1$	$7 - 6$
$7 - 0$	$2 - 2$	$5 - 1$	$7 - 4$	$7 - 2$	$2 - 0$
$3 - 2$	$5 - 4$	$2 - 1$	$7 - 3$	$5 - 2$	$6 - 2$
$7 - 3$	$6 - 5$	$6 - 3$	$4 - 3$	$7 - 5$	$5 - 3$
$4 - 4$	$7 - 0$	$4 - 4$	$7 - 1$		
$3 - 1$	$5 - 2$	$1 - 0$	$4 - 2$		

Activity: Get your partner to get the number of correct answers. Record the number of correct answers.

Strategy: Use the number line to find the difference. Use the number line to find the difference.

$12 - 7$	$13 - 7$	$14 - 7$	$15 - 7$
$16 - 7$	$17 - 7$	$18 - 7$	$19 - 7$
$20 - 7$	$11 - 8$	$12 - 8$	$13 - 8$

Number Operations

Grade 2

Glossary of Mathematics Terms

Addends The numbers in an addition problem.

$$\begin{array}{c} 3 + 4 = 7 \leftarrow \text{sum} \\ \uparrow \quad \uparrow \\ \text{addend} \end{array}$$

Commutative Property of Addition Numbers can be added in any order without changing the sum.

$$3 + 4 = 7 \quad 4 + 3 = 7$$

Difference The result of subtracting two numbers.

$$\begin{array}{c} 16 - 7 = 9 \\ \quad \quad \uparrow \\ \quad \quad \text{difference} \end{array}$$

Digit Any of the symbols 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 used to write a number.

Fact Family A group of related facts, either addition or subtraction.

$$8 + 4 = 12 \quad 4 + 8 = 12 \quad 12 - 4 = 8 \quad 12 - 8 = 4$$

Identity Property of Addition When 0 is added to a number, it does not change the total.

Minuend The number being subtracted from.

$$\begin{array}{c} 16 - 7 = 9 \\ \uparrow \\ \text{minuend} \end{array}$$

Place Value The value of a digit as determined by its position in the ones place, tens place, and so forth. Each position is ten times of the place to its right and one-tenth of the place to its left.

Subtrahend The number being subtracted.

$$\begin{array}{c} 16 - 7 = 9 \\ \quad \quad \uparrow \\ \quad \quad \text{subtrahend} \end{array}$$

Sum The result of joining quantities; the total.

$$\begin{array}{c} 3 + 4 = 7 \\ \quad \quad \uparrow \\ \quad \quad \text{sum} \end{array}$$

Teaching Addition Strategies



Pages 8–51 present practice with addition strategies that promote computational fluency and fact mastery.

Plus Zero means add 0 to any number and the number stays the same.

$$3 + 0 = 3$$

Count Up is an efficient strategy when adding a small number (1, 2, or 3) to a larger quantity. Students start with the larger addend and count up the smaller addend to find the total.

Turn Around means that the order of the addends does not change the total.

$$4 + 1 = 5 \quad \text{and} \quad 1 + 4 = 5$$

Doubles are facts in which an addend is added to itself. Students often discover that Doubles are always even numbers. When students have learned the Doubles facts, they have an “anchor” from which to compute many other facts.

$1 + 1 = 2$	$3 + 3 = 6$	$5 + 5 = 10$	$7 + 7 = 14$	$9 + 9 = 18$
$2 + 2 = 4$	$4 + 4 = 8$	$6 + 6 = 12$	$8 + 8 = 16$	$10 + 10 = 20$

Doubles Plus One means double the addend and add one more.

Doubles Facts	Doubles Plus One Facts
If you know $6 + 6 = 12$	→ then $6 + 7$ is just $6 + 6 + 1 = 13$
If you know $8 + 8 = 16$	→ then $8 + 9$ is just $8 + 8 + 1 = 17$

Tens Partners are number pairs that make 10.

$0 + 10 = 10$	$2 + 8 = 10$	$4 + 6 = 10$
$1 + 9 = 10$	$3 + 7 = 10$	$5 + 5 = 10$

Plus Ten means when 10 is added to a number, the tens-place digit increases by one, while the ones-place digit stays the same.

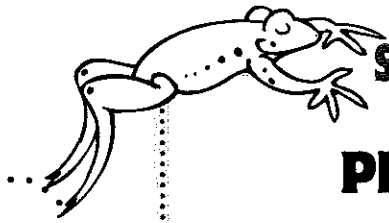
$$44 + 10 = 54$$

Plus Nine is based on the fact that 9 is one away from 10. Two common approaches are:

See 9. Think 10.	See 9 Make 10.
See $6 + 9$. Think $6 + 10 - 1$.	Turn $6 + 9$ into $5 + 10$.
See $14 + 9$. Think $14 + 10 - 1$.	Turn $14 + 9$ into $13 + 10$.

Addition Strategies

Plus Zero	Add 0 to a number and the number stays the same. $3 + 0 = 3$
Count Up +1, +2, +3	Count up when adding on small numbers, such as 1, 2, or 3.
Turn Around	Add numbers in any order and the total stays the same. $3 + 1 = 4$ $1 + 3 = 4$
Doubles	Add the number to itself and that number doubles. $2 + 2 = 4$
Doubles Plus One	Double the number and add one more. $2 + 3 = 2 + 2 + 1$
Tens Partners	There are six sets of number pairs that make 10: $10 + 0$ $9 + 1$ $8 + 2$ $7 + 3$ $6 + 4$ $5 + 5$
Plus Ten	When 10 is added to a number, the tens-place digit increases by one. $12 + 10 = 22$
Plus Nine See 9. Think 10. See 9. Make 10.	To add 9 to a number, add 10 instead and jump back one. See $6 + 9$ Think $6 + 10 - 1$ OR To add 9 to a number, make the 9 a 10 by reducing the other addend by one. See $9 + 4$ Make $10 + 3$



Strategy

Plus Zero

Name _____

Add 0 to a number and the number stays the same.

$$3 + 0 = 3$$

Add 0.

$7 + 0 = \underline{\quad}$

$8 + 0 = \underline{\quad}$

$0 + 9 = \underline{\quad}$

$4 + 0 = \underline{\quad}$

$5 + 0 = \underline{\quad}$

$0 + 12 = \underline{\quad}$

Add 0 to large numbers.

$100 + 0 = \underline{\quad}$

$99 + 0 = \underline{\quad}$

$0 + 232 = \underline{\quad}$

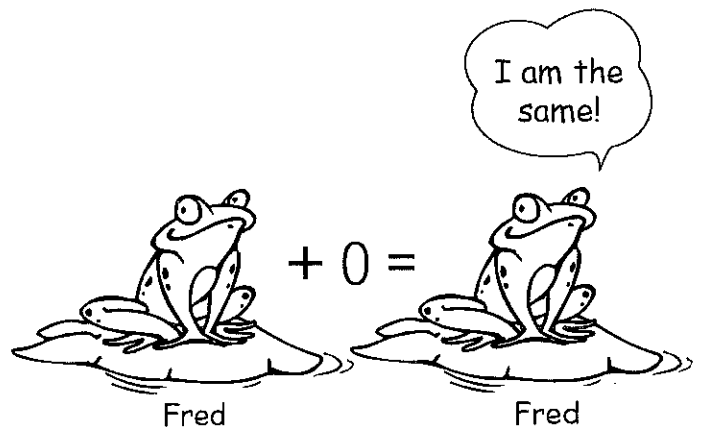
$487 + 0 = \underline{\quad}$

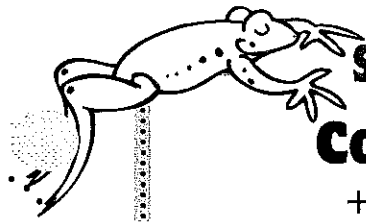
Write your own **Plus Zero** problems.

$\underline{\quad} + 0 = \underline{\quad}$

$\underline{\quad} + 0 = \underline{\quad}$

$0 + \underline{\quad} = \underline{\quad}$





Strategy Count Up

+1, +2, +3

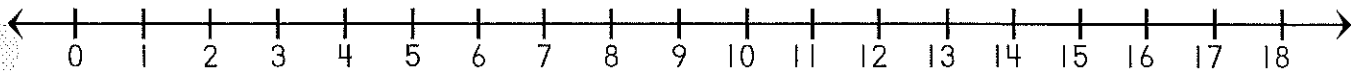
Count Up when adding on small numbers, such as 1, 2, or 3.

To solve $7 + 2$, start at 7. Circle 7.
Count up 2 hops. Underline the answer.

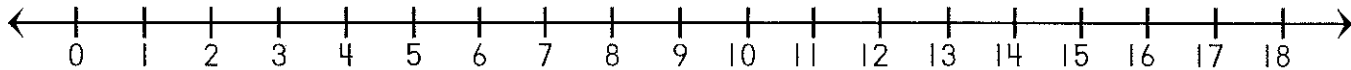


$$7 + 2 = 9$$

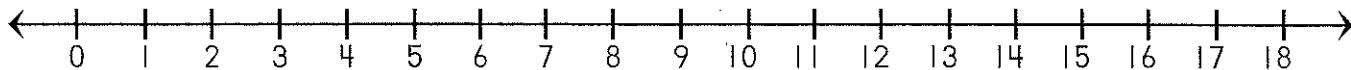
Add. Use the **Count Up** strategy.
Show your hops on the number line.



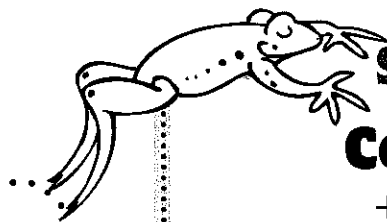
$$6 + 1 = \underline{\quad}$$



$$4 + 2 = \underline{\quad}$$



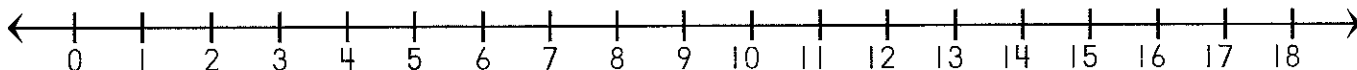
$$5 + 3 = \underline{\quad}$$



Strategy
Count Up
 +1, +2, +3

Count Up to add a small number
 to a larger number.

Find the sums. Use the number line.



$4 + 1 = \underline{\quad}$

$8 + 2 = \underline{\quad}$

$13 + 1 = \underline{\quad}$

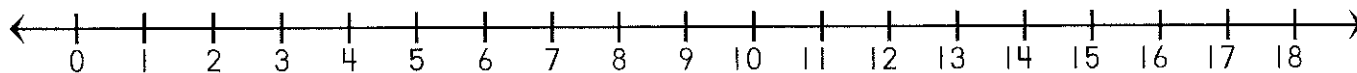


$1 + 3 = \underline{\quad}$

$7 + 2 = \underline{\quad}$

$14 + 3 = \underline{\quad}$

Add. Use the number line.



$17 + 1 = \underline{\quad}$

$6 + 3 = \underline{\quad}$

$5 + 3 = \underline{\quad}$

$9 + 3 = \underline{\quad}$

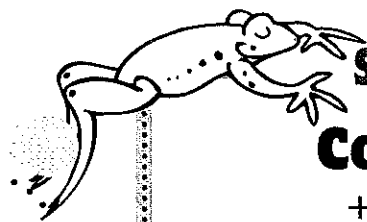
$13 + 1 = \underline{\quad}$

$9 + 2 = \underline{\quad}$

$11 + 2 = \underline{\quad}$

$10 + 3 = \underline{\quad}$

$8 + 3 = \underline{\quad}$



Strategy
Count Up
+1, +2, +3

Count Up to add a small number to a larger number.

Solve the problems. Use the number line.

$19 + 1 = \underline{\quad}$

$13 + 2 = \underline{\quad}$

$16 + 1 = \underline{\quad}$

$8 + 3 = \underline{\quad}$

$19 + 2 = \underline{\quad}$

$14 + 2 = \underline{\quad}$

$$\begin{array}{r} 18 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 2 \\ \hline \end{array}$$

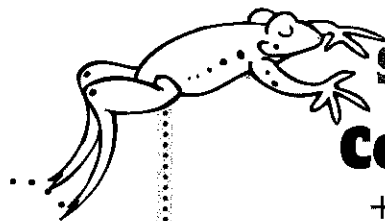
$$\begin{array}{r} 18 \\ + 3 \\ \hline \end{array}$$

Write your own **Count Up** problems.

$\underline{\quad} + 1 = \underline{\quad}$

$\underline{\quad} + 2 = \underline{\quad}$





Strategy

Count Up

+1, +2, +3

Count Up to add a small number to a larger number.

Count how many jumps you need to get to the answer.

$$6 + \square = 7$$

$$9 + \square = 11$$

$$3 + \square = 6$$

$$15 + \square = 16$$

$$12 + \square = 14$$

$$7 + \square = 10$$

$$\begin{array}{r} 4 \\ + \square \\ \hline 7 \end{array}$$

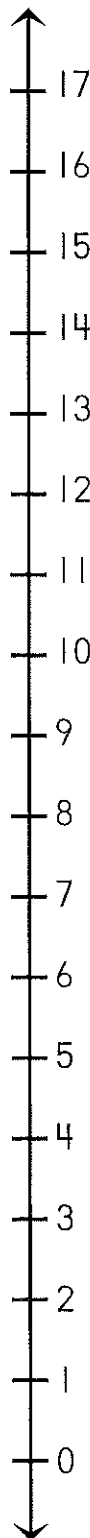
$$\begin{array}{r} 10 \\ + \square \\ \hline 12 \end{array}$$

$$\begin{array}{r} 6 \\ + \square \\ \hline 9 \end{array}$$

$$\begin{array}{r} 15 \\ + \square \\ \hline 17 \end{array}$$

$$\begin{array}{r} 7 \\ + \square \\ \hline 8 \end{array}$$

$$\begin{array}{r} 13 \\ + \square \\ \hline 16 \end{array}$$



Name _____

Strategy

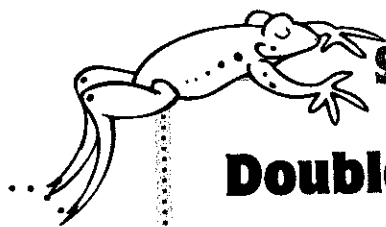
Doubles

Add the number to itself and that number doubles.

Make tally marks to help you find the sum. Complete the chart.

Doubles Fact	Tally Marks	Sum
1 + 1	1 + 1	2
2 + 2		
3 + 3		
4 + 4		
5 + 5		
6 + 6	+	
7 + 7		
8 + 8		
9 + 9		
10 + 10		
11 + 11		
12 + 12		
13 + 13		

Describe the pattern in your sums. _____



Strategy

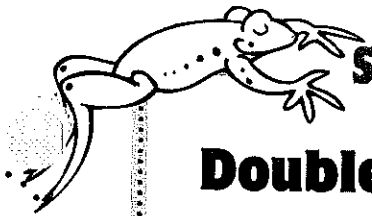
Doubles Plus One

Double the number and add one more.

Double the number.	→	Add one more.
$\begin{array}{r} 4 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc \\ + 4 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc \\ \hline 8 \end{array}$		$\begin{array}{r} 4 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc \\ + 5 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bullet \\ \hline 9 \end{array}$

Solve the **Doubles** fact. Then solve the **Doubles Plus One** fact.

Doubles		Doubles + 1
$\begin{array}{r} 5 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc \\ + 5 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc \\ \hline \end{array}$	→	$\begin{array}{r} 5 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc \\ + 6 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bullet \\ \hline \end{array}$
$\begin{array}{r} 6 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc \\ + 6 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc \\ \hline \end{array}$	→	$\begin{array}{r} 6 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc \\ + 7 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bullet \\ \hline \end{array}$
$\begin{array}{r} 7 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc \\ + 7 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc \\ \hline \end{array}$	→	$\begin{array}{r} 7 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc \\ + 8 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bullet \\ \hline \end{array}$
$\begin{array}{r} 8 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc \\ + 8 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc \\ \hline \end{array}$	→	$\begin{array}{r} 8 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc \\ + 9 \text{ } \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bullet \\ \hline \end{array}$



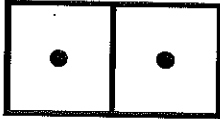
Strategy

Doubles Plus One

Name _____

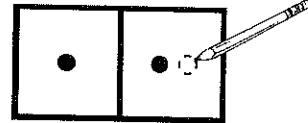
Double the number and add one more.

Doubles Fact
Double the number.



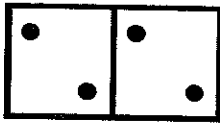
$$1 + 1 = 2$$

Doubles Plus One Fact
Add one more dot and solve.

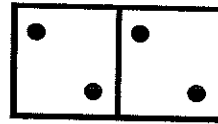


$$1 + 2 = 3$$

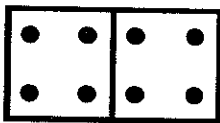
Write the **Doubles** equation. Then write the **Doubles Plus One** equation.



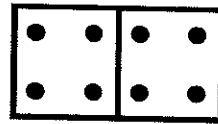
$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



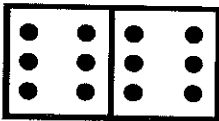
$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



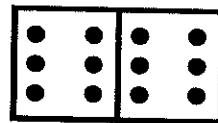
$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



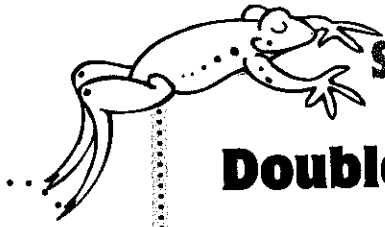
$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

**Strategy****Doubles Plus One**

Double the number and
add one more.

Complete the number equations.

$$3 + 3 = \underline{6} \quad \text{so} \quad 3 + 4 = \underline{\quad}$$

$$5 + 5 = \underline{\quad} \quad \text{so} \quad 5 + 6 = \underline{\quad}$$

$$6 + 6 = \underline{\quad} \quad \text{so} \quad 6 + 7 = \underline{\quad}$$

$$8 + 8 = \underline{\quad} \quad \text{so} \quad 8 + 9 = \underline{\quad}$$

$$7 + 7 = \underline{\quad} \quad \text{so} \quad 7 + 8 = \underline{\quad}$$

$$9 + 9 = \underline{\quad} \quad \text{so} \quad 9 + 10 = \underline{\quad}$$

Solve these.

$$10 + 10 = \underline{\quad} \quad \text{so} \quad 10 + 11 = \underline{\quad}$$

$$20 + 20 = \underline{\quad} \quad \text{so} \quad 20 + 21 = \underline{\quad}$$

$$100 + 100 = \underline{\quad} \quad \text{so} \quad 100 + 101 = \underline{\quad}$$

Strategy

Doubles Plus OneDouble the number and
add one more.

Solve and match.

Each **Doubles** fact has two **Doubles Plus One** facts.**Doubles Facts**

$3 + 3 = \underline{\quad}$

$4 + 4 = \underline{\quad}$

$5 + 5 = \underline{\quad}$

$6 + 6 = \underline{\quad}$

$7 + 7 = \underline{\quad}$

$8 + 8 = \underline{\quad}$

Doubles + 1 Facts

• $5 + 6 = \underline{\quad}$

$6 + 5 = \underline{\quad}$

• $3 + 4 = \underline{\quad}$

$4 + 3 = \underline{\quad}$

• $4 + 5 = \underline{\quad}$

$5 + 4 = \underline{\quad}$

• $6 + 7 = \underline{\quad}$

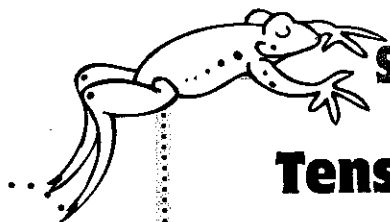
$7 + 6 = \underline{\quad}$

• $8 + 9 = \underline{\quad}$

$9 + 8 = \underline{\quad}$

• $7 + 8 = \underline{\quad}$

$8 + 7 = \underline{\quad}$



Strategy

Tens Partners

Number pairs that make 10 are called **Tens Partners**.

Color the boxes to show **Tens Partners**.

Use blue for the first addend and orange for the second addend.

$$9 + 1 = 10$$

blue	blue	blue	blue	blue	blue	blue	blue	blue	orange
------	------	------	------	------	------	------	------	------	--------

$$8 + 2 = 10$$

blue	blue	blue	blue	blue	blue	blue	blue	orange	orange
------	------	------	------	------	------	------	------	--------	--------

$$7 + 3 = 10$$

--	--	--	--	--	--	--	--	--	--

$$6 + 4 = 10$$

--	--	--	--	--	--	--	--	--	--

$$5 + 5 = 10$$

--	--	--	--	--	--	--	--	--	--

$$4 + 6 = 10$$

--	--	--	--	--	--	--	--	--	--

$$3 + 7 = 10$$

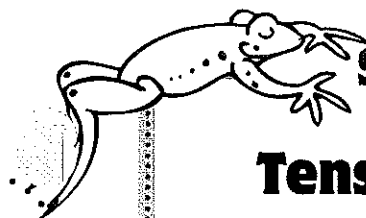
--	--	--	--	--	--	--	--	--	--

$$2 + 8 = 10$$

--	--	--	--	--	--	--	--	--	--

$$1 + 9 = 10$$

--	--	--	--	--	--	--	--	--	--



Strategy

Tens Partners

Number pairs that make 10 are called **Tens Partners**.

Color the row to show **Tens Partners**.

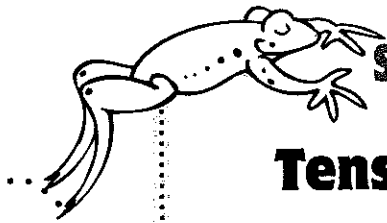
Use blue for the first addend and orange for the second addend.

Then record the number model to complete each row.

Number model

blue	orange	orange	orange	orange	orange	orange	orange	orange	orange	$1 + 9$
blue	blue									$2 + 8$
										$10 + 0$

This is often called the “tens staircase.”

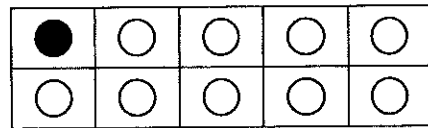
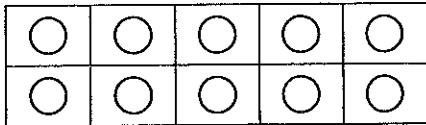


Strategy

Tens Partners

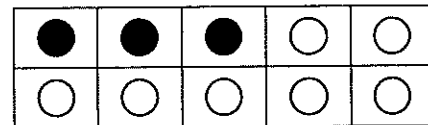
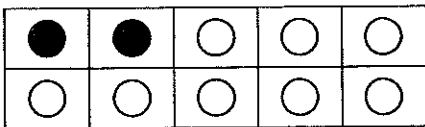
Number pairs that make 10 are called Tens Partners.

Count the dark and light circles in each ten frame.
Record the combinations of 10.



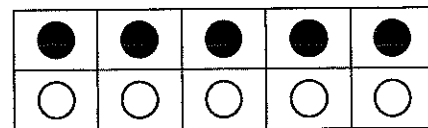
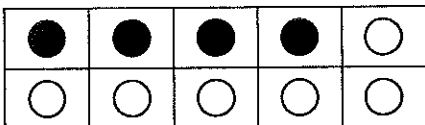
$$\begin{array}{c} \text{○} \\ \hline \bullet \end{array} + \begin{array}{c} \text{○○} \\ \hline \text{○} \end{array} = 10$$

$$\begin{array}{c} \text{ } \\ \hline \bullet \end{array} + \begin{array}{c} \text{ } \\ \hline \text{○} \end{array} = 10$$



$$\begin{array}{c} \text{ } \\ \hline \bullet \end{array} + \begin{array}{c} \text{ } \\ \hline \text{○} \end{array} = \text{ } \end{array}$$

$$\begin{array}{c} \text{ } \\ \hline \bullet \end{array} + \begin{array}{c} \text{ } \\ \hline \text{○} \end{array} = \text{ } \end{array}$$



$$\begin{array}{c} \text{ } \\ \hline \bullet \end{array} + \begin{array}{c} \text{ } \\ \hline \text{○} \end{array} = \text{ } \end{array}$$

$$\begin{array}{c} \text{ } \\ \hline \bullet \end{array} + \begin{array}{c} \text{ } \\ \hline \text{○} \end{array} = \text{ } \end{array}$$

Complete the **Turn Around** facts.

8 + 2 = 10 and 2 + 8 = 10 6 + 4 = 10 and _____

1 + 9 = 10 and _____ 3 + 7 = 10 and _____


Strategy
Tens Partners

Number pairs that make 10
are called **Tens Partners**.

Solve.

$9 + \square = 10$

$7 + 3 = \square$

$5 + \square = 10$

$$\begin{array}{r} 8 \\ + \square \\ \hline 10 \end{array}$$

$$\begin{array}{r} 6 \\ + \square \\ \hline 10 \end{array}$$

$$\begin{array}{r} 1 \\ + \square \\ \hline 10 \end{array}$$

$$\begin{array}{r} 4 \\ + \square \\ \hline 10 \end{array}$$

Circle the **Tens Partners**.

8 and 2

9 and 3

4 and 5

7 and 2

1 and 9

10 and 0

6 and 4

3 and 8

7 and 3

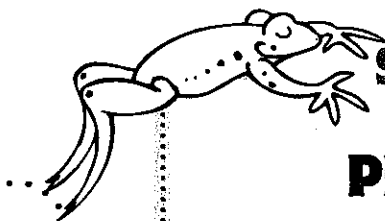
Write the number pairs that make 10.

$0 + 10$ $10 + 0$

$1 + 9$ $9 + 1$



Do you know
the number
pairs that
make 10?



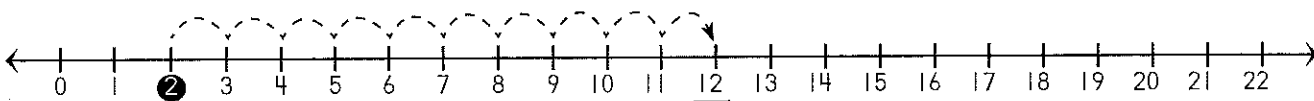
Strategy

Plus Ten

When 10 is added to a number, the tens-place digit increases by one.

Start at 2 and jump up 10.

$$2 + 10 = \underline{12}$$



Start at 5 and jump up 10.

$$5 + 10 = \underline{\quad}$$



Start at 8 and jump up 10.

$$8 + 10 = \underline{\quad}$$



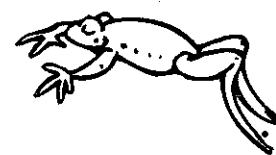
Start at 6 and jump up 10.

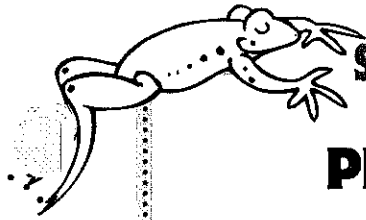
$$6 + 10 = \underline{\quad}$$



Complete the chart.

Number	Number + 10
2	12
5	
6	
8	



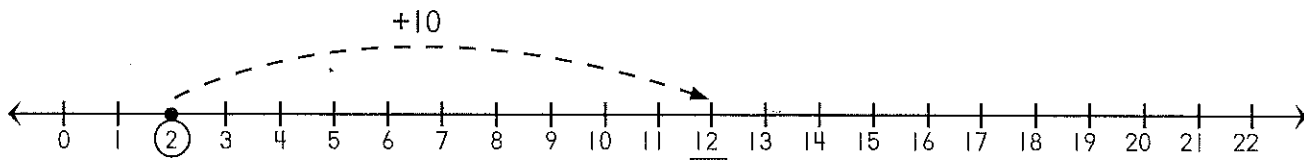


Strategy

Plus Ten

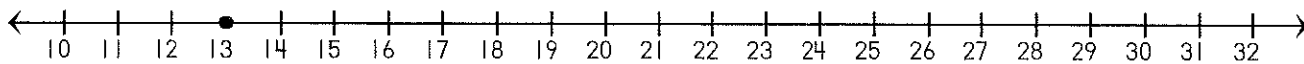
Jump 10. It's faster than counting by ones.

$$2 + 10 = \underline{12}$$

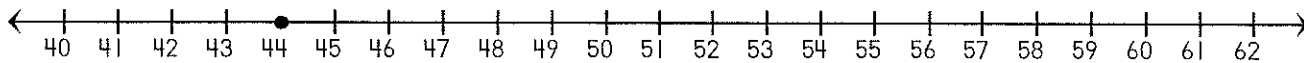


Jump 10 each time. Show it on the number lines.

$$13 + 10 = \underline{\hspace{2cm}}$$

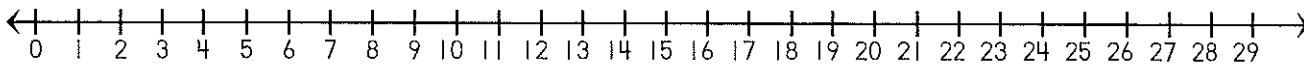


$$44 + 10 = \underline{\hspace{2cm}}$$

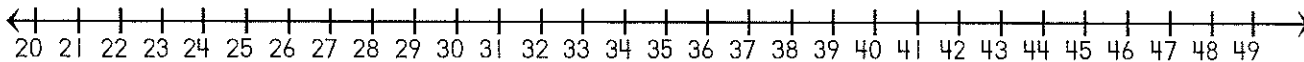


Write your own equations. Use the number lines.

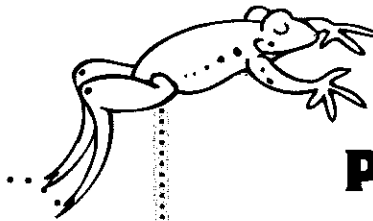
$$\underline{\hspace{2cm}} + 10 = \underline{\hspace{2cm}}$$



$$\underline{\hspace{2cm}} + 10 = \underline{\hspace{2cm}}$$



Name _____



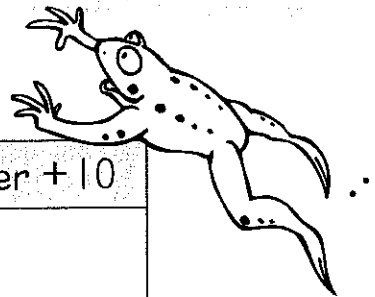
Strategy

Plus Ten

When 10 is added to a number, the tens-place digit increases by one.

Add 10 to each number. Fill in the chart.

Number	Number + 10
2	12
4	
5	
6	
8	
	19
	20
12	



Number	Number + 10
13	
	25
	30
	40
45	
90	
95	
100	

Think! What happens when 10 is added to a number?
 What part of the number changes and what part stays the same?

Word Box

digit increase add ten ones place tens place

Note: You may want to provide a number grid or number line to help students complete the chart.


Strategy
Plus Ten

When 10 is added to a number, the tens-place digit increases by one.

Use the number grid to help you add 10.
Shade the first number, and then shade where you land.
Write the answer.

- (a) Start at 3 and add 10.

$$3 + 10 = \underline{13}$$

- (b) Start at 13 and add 10.

$$13 + 10 = \underline{\quad}$$

- (c) Start at 23 and add 10.

$$23 + 10 = \underline{\quad}$$

- (d) Start at 33 and add 10.

$$33 + 10 = \underline{\quad}$$

- (e) Start at 6 and add 10.

$$6 + 10 = \underline{\quad}$$

- (f) Start at 16 and add 10.

$$16 + 10 = \underline{\quad}$$

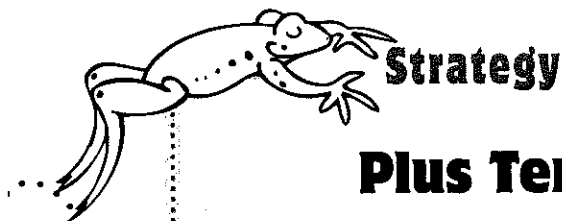
- (g) Start at _____ and add 10.

$$\underline{\quad} + 10 = \underline{\quad}$$

- (h) Start at _____ and add 10.

$$\underline{\quad} + 10 = \underline{\quad}$$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

**Strategy****Plus Ten**

When 10 is added to a number, the tens-place digit increases by one.

Add 10 to each number.

Use the number grid to help you find the answer.

$3 + 10 = \underline{\quad}$

$20 + 10 = \underline{\quad}$

$6 + 10 = \underline{\quad}$

$31 + 10 = \underline{\quad}$

$8 + 10 = \underline{\quad}$

$42 + 10 = \underline{\quad}$

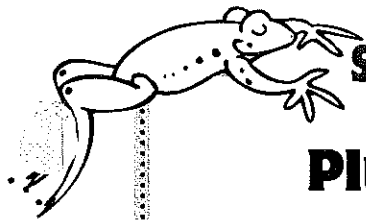
$12 + 10 = \underline{\quad}$

$53 + 10 = \underline{\quad}$

$15 + 10 = \underline{\quad}$

$60 + 10 = \underline{\quad}$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70

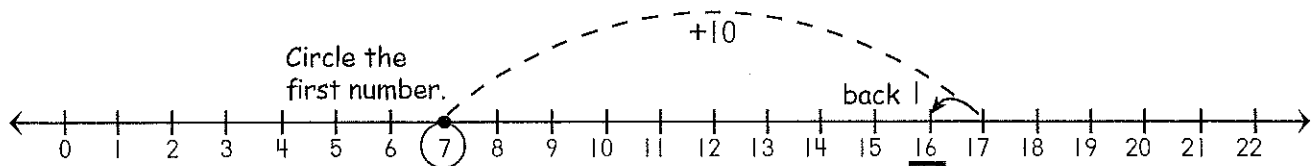


Strategy

Plus Nine

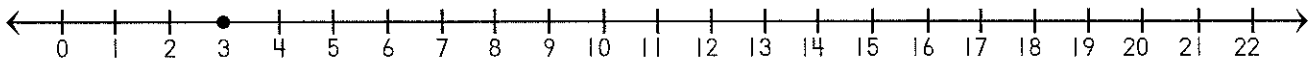
See 9. Think 10.
When adding 9 to a number, add 10 and jump back one.

$$7 + 9 = \underline{16}$$



Use the number line to find the answer.

$$3 + 9 = \underline{\quad}$$

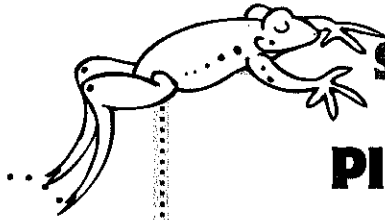


$$5 + 9 = \underline{\quad}$$



$$8 + 9 = \underline{\quad}$$





Strategy

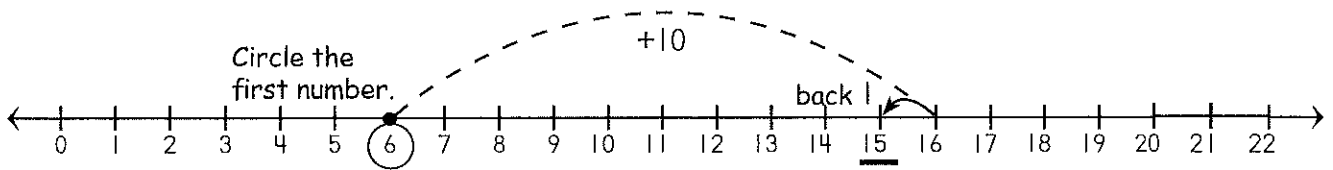
Plus Nine

See 9. Think 10.
When adding 9 to a number, add 10 and jump back one.

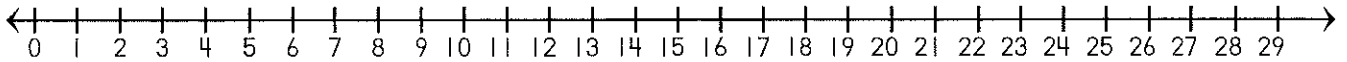
See 9. Think 10.

Add.

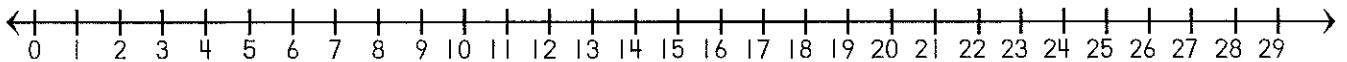
$$6 + 9 = \underline{\quad}$$



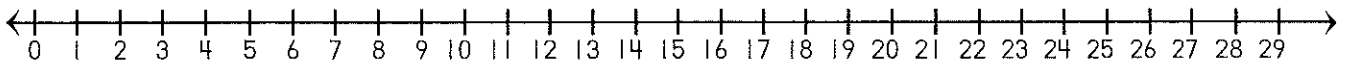
$$4 + 9 = \underline{\quad}$$



$$12 + 9 = \underline{\quad}$$



$$15 + 9 = \underline{\quad}$$




Strategy
Plus Nine

See 9. Think 10.
When adding 9 to a number, add 10 and jump back one.

See 9. Think 10.
Solve and match.

$3 + 9$

$6 + 10 - 1 = \underline{\quad}$

$6 + 9$

$3 + 10 - 1 = \underline{\quad}$

$8 + 9$

$7 + 10 - 1 = \underline{\quad}$

$7 + 9$

$8 + 10 - 1 = \underline{\quad}$

$5 + 9$

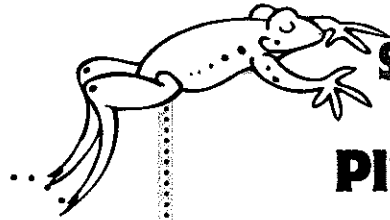
$24 + 10 - 1 = \underline{\quad}$

$13 + 9$

$5 + 10 - 1 = \underline{\quad}$

$24 + 9$

$13 + 10 - 1 = \underline{\quad}$



Strategy

Plus Nine

See 9. Think 10.
When adding 9 to a number,
add 10 and jump back one.

See 9. Think 10. Add.

$$5 + 9 \text{ is the same as } \underline{5 + 10 - 1} = \underline{14}$$

$$9 + 9 \text{ is the same as } \underline{9 + 10 - 1} = \underline{\quad}$$

$$7 + 9 \text{ is the same as } \underline{\quad} = \underline{\quad}$$

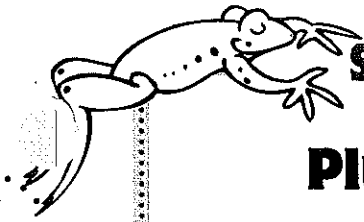
$$4 + 9 \text{ is the same as } \underline{\quad} = \underline{\quad}$$

$$8 + 9 \text{ is the same as } \underline{\quad} = \underline{\quad}$$

$$16 + 9 \text{ is the same as } \underline{\quad} = \underline{\quad}$$

$$23 + 9 \text{ is the same as } \underline{\quad} = \underline{\quad}$$

Write and solve **Plus Nine** problems.



Strategy

Plus Nine

See 9. Make 10.

Another way to add 9 to a number is to make the 9 a 10 by reducing the other addend by one.

give 1

$5 + 9 = 14$

~~5~~ + 9 = 14

turns into

$4 + 10 = 14$

Try it. Draw dots to show the new numbers.

give 1

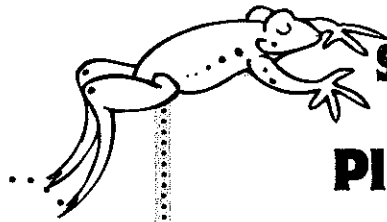
$3 + 9 = \underline{\quad}$

$\underline{2} + \underline{\quad} = \underline{\quad}$

give 1

$4 + 9 = \underline{\quad}$

$\underline{\quad} + \underline{\quad} = \underline{\quad}$



Strategy

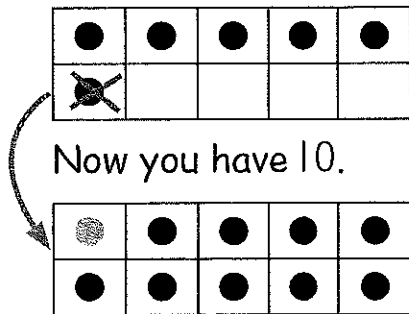
Plus Nine

See 9. Make 10.

Another way to add 9 to a number is to make the 9 a 10 by reducing the other addend by one.

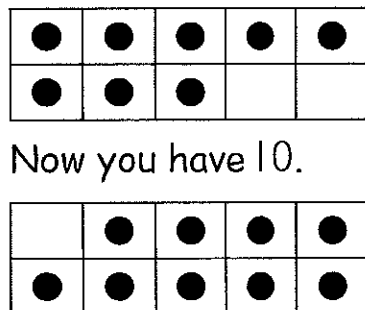
Complete the problems. Draw dots to show the new numbers.

Take one and give it to the 9.



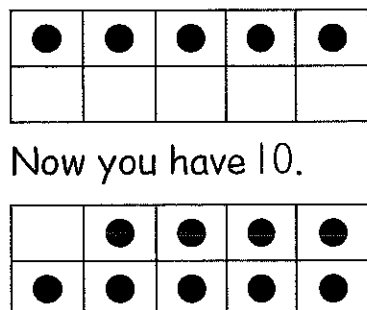
$$\begin{array}{r} 6 \\ + 9 \\ \hline \square \end{array} \longleftrightarrow \begin{array}{r} \square \\ + 10 \\ \hline \square \end{array}$$

Take one and give it to the 9.

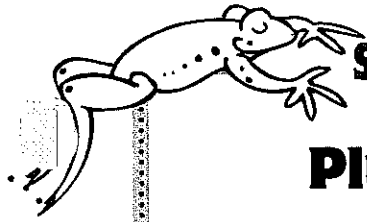


$$\begin{array}{r} 8 \\ + 9 \\ \hline \square \end{array} \longleftrightarrow \begin{array}{r} \square \\ + 10 \\ \hline \square \end{array}$$

Take one and give it to the 9.



$$\begin{array}{r} 5 \\ + 9 \\ \hline \square \end{array} \longleftrightarrow \begin{array}{r} \square \\ + 10 \\ \hline \square \end{array}$$



Strategy

Plus Nine

See 9. Make 10.

Another way to add 9 to a number is to make the 9 a 10 by reducing the other addend by one.

Turn each **Plus Nine** problem into a **Plus Ten** problem.

give 1



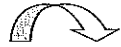
$$4 + 9 \text{ turns into } \underline{3} + 10 = \underline{\quad}$$

give 1



$$7 + 9 \text{ turns into } \underline{\quad} + 10 = \underline{\quad}$$

give 1



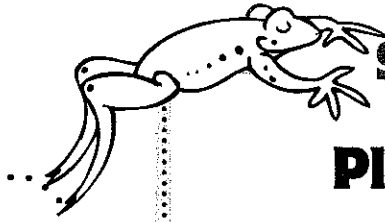
$$8 + 9 \text{ turns into } \underline{\quad} + 10 = \underline{\quad}$$

$$6 + 9 \text{ turns into } \underline{\quad} + 10 = \underline{\quad}$$

$$3 + 9 \text{ turns into } \underline{\quad} + 10 = \underline{\quad}$$

$$11 + 9 \text{ turns into } \underline{\quad} + 10 = \underline{\quad}$$

The pattern I notice is _____



Strategy

Plus Nine

See 9. Make 10.

Another way to add 9 to a number is to make the 9 a 10 by reducing the other addend by one.

Turn each **Plus Nine** problem into a **Plus Ten** problem.

$$5 + 9 \text{ turns into } \underline{4 + 10} = \underline{\quad}$$

$$9 + 9 \text{ turns into } \underline{8 + 10} = \underline{\quad}$$

$$2 + 9 \text{ turns into } \underline{\quad} = \underline{\quad}$$

$$12 + 9 \text{ turns into } \underline{\quad} = \underline{\quad}$$

$$13 + 9 \text{ turns into } \underline{\quad} = \underline{\quad}$$

$$24 + 9 \text{ turns into } \underline{\quad} = \underline{\quad}$$

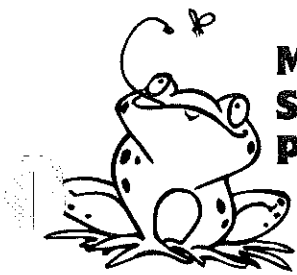
$$6 + 9 \text{ turns into } \underline{\quad} = \underline{\quad}$$

$$16 + 9 \text{ turns into } \underline{\quad} = \underline{\quad}$$

This strategy is: confusing fun difficult
(please check)

easy

other



**Mixed
Strategies
Practice**

Name _____

Doubles and More



Circle the **Doubles** facts.
Then solve the problems.

$$\begin{array}{r} 4 \\ + 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

Think about **Doubles**. Solve the problems.

$1 + 1 = \underline{\quad\quad}$

$10 + 10 = \underline{\quad\quad}$

$100 + 100 = \underline{\quad\quad}$

$2 + 2 = \underline{\quad\quad}$

$20 + 20 = \underline{\quad\quad}$

$200 + 200 = \underline{\quad\quad}$

$3 + 3 = \underline{\quad\quad}$

$30 + 30 = \underline{\quad\quad}$

$300 + 300 = \underline{\quad\quad}$



Which Strategy Fits?

Cut and glue the facts under the best strategy.

Plus Zero

Add 0 to a number and the number stays the same.

Count Up +1, +2, +3

Count up from the larger number. Add on 1, 2, or 3.



$8 + 1$

$0 + 10$

$6 + 2$

$6 + 0$

$4 + 3$

$9 + 0$

$9 + 3$

$0 + 7$

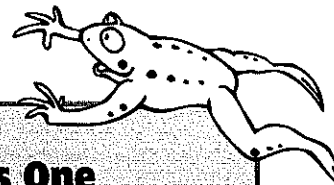


Mixed Strategies Practice

Name _____

Which Strategy Fits?

Cut and glue the facts under the best strategy.



Doubles

Add the number to itself.

Doubles Plus One

Double the number. Add one more.

5 + 6

9 + 9

4 + 4

3 + 3

8 + 9

3 + 4

4 + 5

8 + 8



Which Strategy Fits?

Cut and glue the facts under the best strategy.

Plus Nine

See 9. Think 10.
Then go back one.

See 9 Make 10.
Then reduce the other
addend by one.



$$6 + 9$$
$$(5 + 10)$$

$$38 + 9$$
$$(38 + 10 - 1)$$

$$7 + 9$$
$$(7 + 10 - 1)$$

$$5 + 9$$
$$(4 + 10)$$

$$12 + 9$$
$$(12 + 10 - 1)$$

$$8 + 9$$
$$(7 + 10)$$

$$4 + 9$$
$$(3 + 10)$$

$$24 + 9$$
$$(24 + 10 - 1)$$



Mixed Strategies Practice

Name _____

Add and Color

Find the problems that you would solve using each strategy.
Solve. Shade the boxes with the correct color.

Plus Zero — yellow **Count Up** — orange **Doubles** — red

+	0	1	2	3	4	5	6	7	8	9	10
0	0+0	0+1	0+2	0+3	0+4	0+5	0+6	0+7	0+8	0+9	0+10
1	1+0	1+1	1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+10
2	2+0	2+1	2+2	2+3	2+4	2+5	2+6	2+7	2+8	2+9	2+10
3	3+0	3+1	3+2	3+3	3+4	3+5	3+6	3+7	3+8	3+9	3+10
4	4+0	4+1	4+2	4+3	4+4	4+5	4+6	4+7	4+8	4+9	4+10
5	5+0	5+1	5+2	5+3	5+4	5+5	5+6	5+7	5+8	5+9	5+10
6	6+0	6+1	6+2	6+3	6+4	6+5	6+6	6+7	6+8	6+9	6+10
7	7+0	7+1	7+2	7+3	7+4	7+5	7+6	7+7	7+8	7+9	7+10
8	8+0	8+1	8+2	8+3	8+4	8+5	8+6	8+7	8+8	8+9	8+10
9	9+0	9+1	9+2	9+3	9+4	9+5	9+6	9+7	9+8	9+9	9+10
10	10+0	10+1	10+2	10+3	10+4	10+5	10+6	10+7	10+8	10+9	10+10



Color by Strategy

Find the problems that you would solve using each strategy.
Solve. Shade the boxes with the correct color.

Tens Partners—yellow **Plus Ten**—blue **Plus Nine**—green

+	0	1	2	3	4	5	6	7	8	9	10
0	0+0	0+1	0+2	0+3	0+4	0+5	0+6	0+7	0+8	0+9	0+10
1	1+0	1+1	1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+10
2	2+0	2+1	2+2	2+3	2+4	2+5	2+6	2+7	2+8	2+9	2+10
3	3+0	3+1	3+2	3+3	3+4	3+5	3+6	3+7	3+8	3+9	3+10
4	4+0	4+1	4+2	4+3	4+4	4+5	4+6	4+7	4+8	4+9	4+10
5	5+0	5+1	5+2	5+3	5+4	5+5	5+6	5+7	5+8	5+9	5+10
6	6+0	6+1	6+2	6+3	6+4	6+5	6+6	6+7	6+8	6+9	6+10
7	7+0	7+1	7+2	7+3	7+4	7+5	7+6	7+7	7+8	7+9	7+10
8	8+0	8+1	8+2	8+3	8+4	8+5	8+6	8+7	8+8	8+9	8+10
9	9+0	9+1	9+2	9+3	9+4	9+5	9+6	9+7	9+8	9+9	9+10
10	10+0	10+1	10+2	10+3	10+4	10+5	10+6	10+7	10+8	10+9	10+10



Mixed Strategies Practice

Name _____

What's Your Strategy?

Find the problems that you would solve using each strategy.
Solve. Shade the boxes with the correct color.

Doubles — purple **Doubles Plus One** — blue **Tens Partners** — green

+	0	1	2	3	4	5	6	7	8	9	10
0	0+0	0+1	0+2	0+3	0+4	0+5	0+6	0+7	0+8	0+9	0+10
1	1+0	1+1	1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+10
2	2+0	2+1	2+2	2+3	2+4	2+5	2+6	2+7	2+8	2+9	2+10
3	3+0	3+1	3+2	3+3	3+4	3+5	3+6	3+7	3+8	3+9	3+10
4	4+0	4+1	4+2	4+3	4+4	4+5	4+6	4+7	4+8	4+9	4+10
5	5+0	5+1	5+2	5+3	5+4	5+5	5+6	5+7	5+8	5+9	5+10
6	6+0	6+1	6+2	6+3	6+4	6+5	6+6	6+7	6+8	6+9	6+10
7	7+0	7+1	7+2	7+3	7+4	7+5	7+6	7+7	7+8	7+9	7+10
8	8+0	8+1	8+2	8+3	8+4	8+5	8+6	8+7	8+8	8+9	8+10
9	9+0	9+1	9+2	9+3	9+4	9+5	9+6	9+7	9+8	9+9	9+10
10	10+0	10+1	10+2	10+3	10+4	10+5	10+6	10+7	10+8	10+9	10+10



Mixed Strategies Practice

Name _____

Addition

Strategy Names

~~Count Up~~

Tens Partners

Doubles

Doubles Plus One

Plus Nine

Plus Ten

Complete each series. Write the strategy name.

Strategy name
Count Up
$8 + 1 = \underline{\quad}$
$9 + 3 = \underline{\quad}$
$14 + 2 = \underline{\quad}$
$19 + 1 = \underline{\quad}$
$15 + 2 = \underline{\quad}$
$11 + 3 = \underline{\quad}$

Strategy name
$9 + 9 = \underline{\quad}$
$8 + 8 = \underline{\quad}$
$7 + 7 = \underline{\quad}$
$6 + 6 = \underline{\quad}$
$5 + 5 = \underline{\quad}$
$10 + 10 = \underline{\quad}$

Strategy name
$0 + 10 = \underline{\quad}$
$8 + 2 = \underline{\quad}$
$4 + 6 = \underline{\quad}$
$5 + 5 = \underline{\quad}$
$7 + 3 = \underline{\quad}$
$1 + 9 = \underline{\quad}$

Strategy name
$3 + 4 = \underline{\quad}$
$4 + 5 = \underline{\quad}$
$5 + 6 = \underline{\quad}$
$7 + 8 = \underline{\quad}$
$8 + 9 = \underline{\quad}$
$9 + 10 = \underline{\quad}$

Strategy name
$8 + 10 = \underline{\quad}$
$9 + 10 = \underline{\quad}$
$7 + 10 = \underline{\quad}$
$5 + 10 = \underline{\quad}$
$6 + 10 = \underline{\quad}$
$11 + 10 = \underline{\quad}$

Strategy name
$8 + 9 = \underline{\quad}$
$9 + 9 = \underline{\quad}$
$7 + 9 = \underline{\quad}$
$5 + 9 = \underline{\quad}$
$6 + 9 = \underline{\quad}$
$4 + 9 = \underline{\quad}$



**Mixed
Strategies
Practice**

Name _____

Addition Power



Add and color.

$\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ + 8 \\ \hline \end{array}$
$\begin{array}{r} 5 \\ + 1 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ + 3 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + 9 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ + 7 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$
$\begin{array}{r} 1 \\ + 9 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + 0 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + 7 \\ \hline \end{array}$
$\begin{array}{r} 13 \\ + 7 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ + 2 \\ \hline \end{array}$
$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$

<u>If the sum is between</u>	<u>Color the square</u>
0 and 8	yellow
9 and 11	red
12 and 15	green
16 and 20	blue

Teaching Subtraction Strategies



Pages 54–76 present practice with subtraction strategies that promote computational fluency and fact mastery.

There are two ways to look at subtraction:

- as the comparison of two quantities
“The difference between 16 and 7 is 9.”
- as the changing of an amount to less
“If I take 7 away from 16, I have 9 left.”

$$16 - 7 = 9$$

Minus Zero means subtract 0 from any number and the number stays the same.

$$3 - 0 = 3$$

A Number Minus Itself means a number subtracted from itself is 0.

$$5 - 5 = 0 \quad 8 - 8 = 0 \quad 3 - 3 = 0$$

Count Back to take away small numbers, such as 1, 2, or 3.

$$4 - 1 = 3 \quad 4 - 2 = 2 \quad 4 - 3 = 1$$

Count Up to find the difference. This strategy is best when the numbers are close together.

$$11 - 9 = 2 \quad \text{Count up two from 9 to 11.}$$

Think Addition means that every subtraction fact is the reverse of an addition fact.

$$6 + 2 = 8 \quad \text{so} \quad 8 - 2 = 6$$

Tens Partners are helpful because if you know the addition pairs, then you know the related subtraction facts.

$$7 + 3 = 10 \quad \text{so} \quad 10 - 3 = 7 \quad \text{and} \quad 10 - 7 = 3$$

Doubles are helpful because if you know the addition doubles, then you know the related subtraction facts.

$$8 + 8 = 16 \quad \text{so} \quad 16 - 8 = 8$$

Minus Ten means that when 10 is subtracted from a number, the tens-place digit decreases by one, while the ones-place digit stays the same.

$$30 - 10 = 20$$

Minus Nine is based on the fact that 9 is one away from 10. Two common approaches are:

See 9. Think 10.
Subtract 10 and add 1.

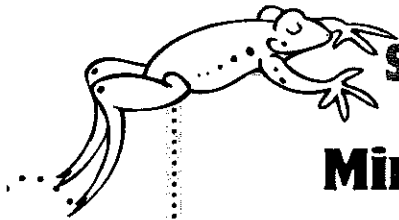
See 12 - 9 Think 12 - 10 + 1.

See 9 Make 10.
Increase each number by one.

Turn 12 - 9 into 13 - 10

Subtraction Strategies

Minus Zero	<p>Subtract 0 from a number and the number stays the same.</p> $8 - 0 = 8$
A Number Minus Itself	<p>Subtract a number from itself and the result is 0.</p> $8 - 8 = 0$
Count Back -1, -2, -3	<p>Count back to take away small numbers, such as 1, 2, or 3.</p> $17 - 1 = 16 \quad 17 - 2 = 15 \quad 17 - 3 = 14$
Count Up	<p>Count up to find the difference when the numbers are close together.</p> $17 - 15 = 2$ <p>Count up two from 15 to 17.</p>
Think Addition	<p>To subtract, think of the related addition fact.</p> $8 + 6 = 14 \quad \text{so} \quad 14 - 6 = 8$
Tens Partners	<p>If you know the Tens Partners, then you know the related subtraction facts.</p> $7 + 3 = 10 \quad \text{so} \quad 10 - 7 = 3$
Doubles	<p>If you know the addition doubles, then you know the related subtraction facts.</p> $6 + 6 = 12 \quad \text{so} \quad 12 - 6 = 6$
Minus Ten	<p>Subtract 10 and the tens-place digit decreases by one, while the ones-place digit stays the same.</p> $30 - 10 = 20$
Minus Nine See 9. Think 10. See 9. Make 10.	<p>Remember that 9 is just one away from 10. Two common approaches are:</p> <p>See 9. Think 10. Subtract 10 and add 1. See $12 - 9$. Think $12 - 10 + 1$.</p> <p>See 9. Make 10. Increase each number by one. Turn $12 - 9$ into $13 - 10$.</p>



Strategy

Minus Zero

Subtract 0 and the number stays the same.

$$4 - 0 = 4$$

Subtract 0.

$$5 - 0 = \square$$

$$8 - 0 = \square$$

$$9 - 0 = \square$$

$$14 - 0 = \square$$

$$5 - \square = 5$$

$$12 - \square = 12$$

Find the difference.

$$105 - 0 = \square$$

$$99 - 0 = \square$$

$$321 - 0 = \square$$

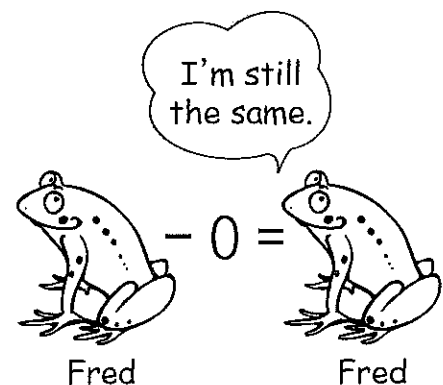
$$56 - 0 = \square$$

Write your own **Minus Zero** problems.

$$\begin{array}{r} \square \\ - 0 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ - 0 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ - 0 \\ \hline \square \end{array}$$





Strategy
A Number
Minus Itself

Subtract a number from itself
and the result is 0.

$$8 - 8 = 0$$

Subtract the number from itself.

$$5 - 5 = \square$$

$$9 - 9 = \square$$

$$7 - 7 = \square$$

$$12 - 12 = \square$$

$$3 - \square = 0$$

$$15 - \square = 0$$

Write problems in which the difference is 0.

$$\square - \square = 0$$

$$\square - \square = 0$$

$$\square - \square = 0$$

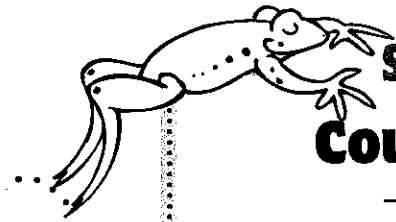
$$\square - \square = 0$$

$$\begin{array}{r} \square \\ - \square \\ \hline 0 \end{array}$$

$$\begin{array}{r} \square \\ - \square \\ \hline 0 \end{array}$$

$$\begin{array}{r} \square \\ - \square \\ \hline 0 \end{array}$$

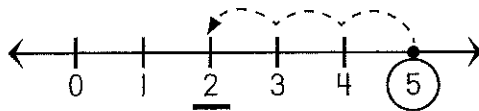




Strategy
Count Back
 -1, -2, -3

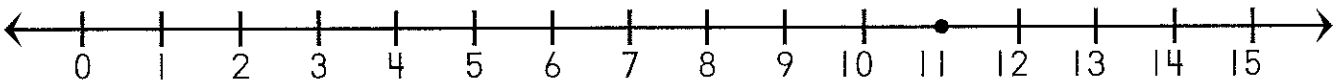
Count Back to take away small numbers, such as 1, 2, or 3.

$$5 - 3 = 2$$



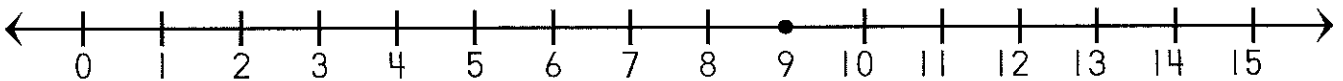
Use the number line to **Count Back**.

Start at 11 and count back 2.



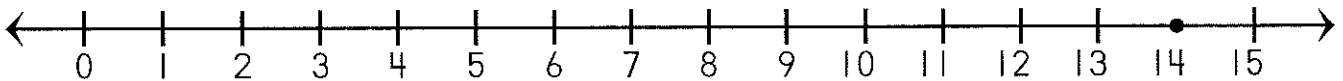
$$11 - 2 = \underline{\quad}$$

Start at 9 and count back 3.

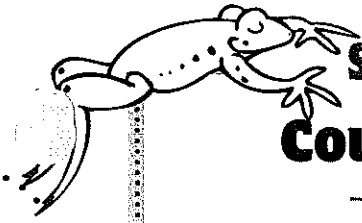


$$9 - 3 = \underline{\quad}$$

Start at 14 and count back 2.



$$14 - 2 = \underline{\quad}$$



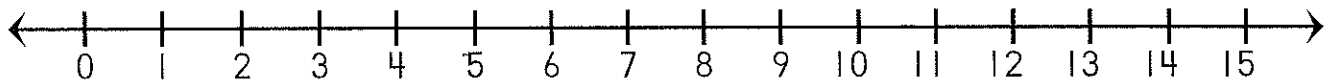
Strategy

Count Back

-1, -2, -3

Count Back to take away small numbers, such as 1, 2, or 3.

Count Back to find the difference.
Use the number line if you like.



$6 - 1 = \underline{\quad}$

$11 - 3 = \underline{\quad}$

$14 - 3 = \underline{\quad}$

$15 - 1 = \underline{\quad}$

$9 - 2 = \underline{\quad}$

$12 - 3 = \underline{\quad}$

$14 - 2 = \underline{\quad}$

$6 - 3 = \underline{\quad}$

$3 - 2 = \underline{\quad}$

$$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 1 \\ \hline \end{array}$$

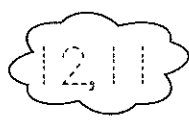
$$\begin{array}{r} 6 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

Count Back in your head. Write the difference.



$10 - 1 = \underline{\quad}$



$12 - 1 = \underline{\quad}$



$7 - 1 = \underline{\quad}$



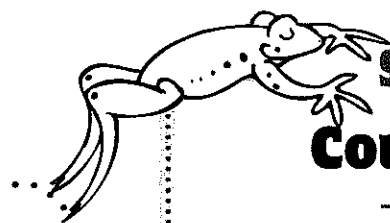
$17 - 2 = \underline{\quad}$



$9 - 3 = \underline{\quad}$



$15 - 3 = \underline{\quad}$



Strategy

Count Back

-1, -2, -3

Count Back to take away small numbers, such as 1, 2, or 3.

Count Back to subtract.
Use the number line if you like.

$$16 - 2 = \square$$

$$8 - 3 = \square$$

$$22 - 1 = \square$$

$$19 - 2 = \square$$

$$11 - 3 = \square$$

$$14 - 1 = \square$$

Complete the equations.

$$22 - \square = 20$$

$$17 - \square = 16$$

$$10 - \square = 7$$

$$15 - \square = 12$$

$$8 - \square = 6$$

$$18 - \square = 16$$

$$13 - \square = 10$$

$$16 - \square = 14$$

Write your own equations.

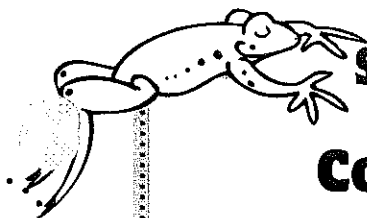
$$\square - 2 = \square$$

$$\square - 3 = \square$$

$$\square - 1 = \square$$

$$\square - 2 = \square$$





Strategy

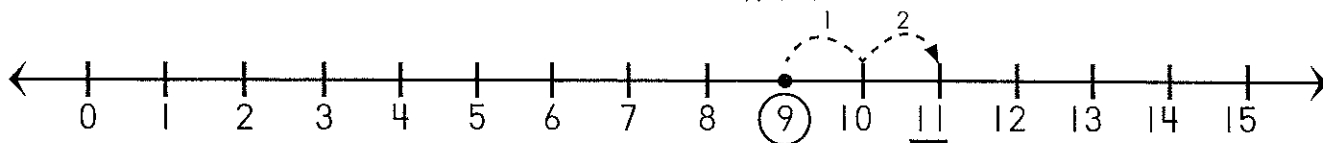
Count Up

Count Up to find the difference between the numbers.

Start at 9. Count Up to 11.
The number of hops is the difference.

$$11 - 9 = 2$$

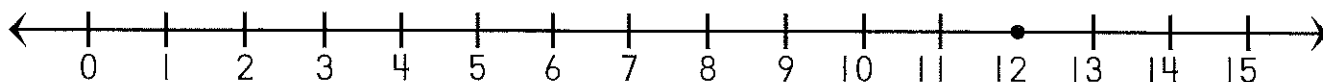
Count up
difference



Use the number line to **Count Up**.

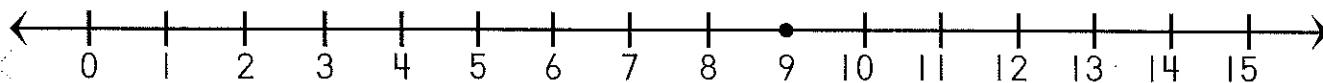
Start at 12. Count up to 15.
The number of hops is the difference.

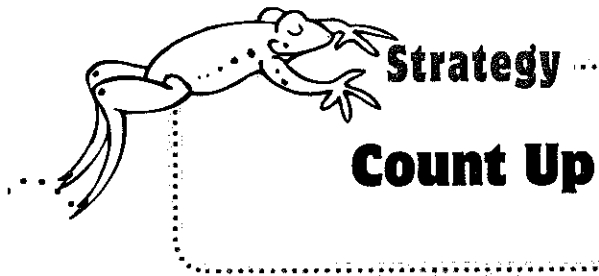
$$15 - 12 = \underline{\quad}$$



Start at 9. Count up to 12.
The number of hops is the difference.

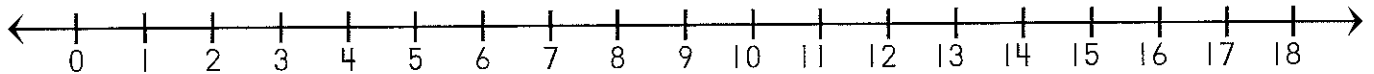
$$12 - 9 = \underline{\quad}$$





Count Up to find the difference.

Use the number line to **Count Up**. Solve.



$5 - 4 = \underline{\quad}$ $9 - 8 = \underline{\quad}$ $16 - 15 = \underline{\quad}$

$15 - 4 = \underline{\quad}$ $14 - 12 = \underline{\quad}$ $12 - 11 = \underline{\quad}$

Count Up from the bottom number with tally marks. Solve.

$$\begin{array}{r} 11 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 16 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 15 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 12 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 14 \\ \hline \end{array}$$

Count Up with dots. Solve.

$$15 - 13 = \underline{2}$$

14, 15
••

$$11 - 8 = \underline{3}$$

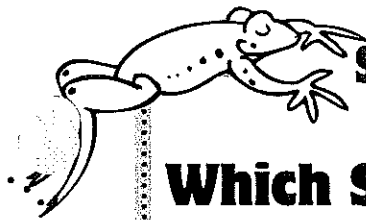
9, 10, 11
•••

$9 - 7 = \underline{\quad}$

$13 - 11 = \underline{\quad}$

$8 - 6 = \underline{\quad}$

$17 - 16 = \underline{\quad}$



Strategy

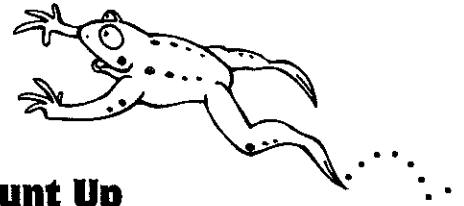
Which Strategy Fits?

Count Back

Count back when subtracting a small number. **Count Back** works for -1 , -2 , -3 problems.

$$100 - 2 = \underline{98}$$

It is fast to count back 2.



Count Up

Count up when subtracting a large number. **Count Up** works best when the numbers in the problem are close together.

$$100 - 99 = \underline{\quad}$$

It is too far to count back 99.
It is easy to count up from 99.

Circle **Count Back** problems in blue.

Circle **Count Up** problems in red.

Solve.

$20 - 1 = \underline{\quad}$

$20 - 18 = \underline{\quad}$

$20 - 3 = \underline{\quad}$

$14 - 2 = \underline{\quad}$

$14 - 11 = \underline{\quad}$

$13 - 2 = \underline{\quad}$

$9 - 1 = \underline{\quad}$

$19 - 1 = \underline{\quad}$

$19 - 16 = \underline{\quad}$

Bonus problems:

$80 - 1 = \underline{\quad}$

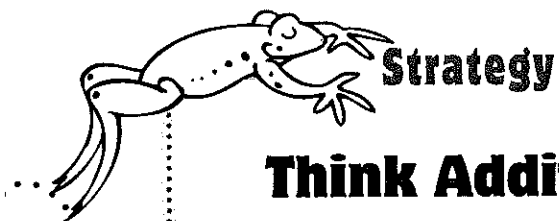
$80 - 76 = \underline{\quad}$

$95 - 3 = \underline{\quad}$

$99 - 2 = \underline{\quad}$

$59 - 58 = \underline{\quad}$

$41 - 40 = \underline{\quad}$

**Strategy****Think Addition**

Every subtraction problem
can be solved as addition.

$$7 - 5 = \boxed{2} \text{ is the same as } 2 + \boxed{5} = 7$$

Solve the subtraction problem. Rewrite it as an addition problem.

Subtraction		Addition
$12 - 9 = \boxed{3}$		$3 + \boxed{} = 12$
$11 - 7 = \boxed{}$	\rightarrow	$4 + \boxed{} = 11$
$13 - 8 = \boxed{}$	\rightarrow	$\boxed{} + \boxed{} = 13$
$14 - 7 = \boxed{}$	\rightarrow	$\boxed{} + \boxed{} = 14$
$15 - 9 = \boxed{}$	\rightarrow	$\boxed{} + \boxed{} = 15$
$11 - 5 = \boxed{}$	\rightarrow	$6 + \boxed{} = 11$
$12 - 7 = \boxed{}$	\rightarrow	$5 + \boxed{} = 12$


Strategy
Think Addition

Every subtraction problem
can be solved as addition.

Use addition to solve subtraction.
Solve and match.

$4 + 6 = \underline{10}$

$10 - 5 = \underline{\quad}$

$2 + 8 = \underline{\quad}$

$10 - 6 = \underline{4}$

$3 + 7 = \underline{\quad}$

$10 - 8 = \underline{\quad}$

$1 + 9 = \underline{\quad}$

$10 - 9 = \underline{\quad}$

$5 + 5 = \underline{\quad}$

$10 - 7 = \underline{\quad}$

The above facts are: Tens Partners Doubles Plus Ten

$5 + 5 = \underline{\quad}$

$12 - 6 = \underline{\quad}$

$6 + 6 = \underline{\quad}$

$14 - 7 = \underline{\quad}$

$7 + 7 = \underline{\quad}$

$16 - 8 = \underline{\quad}$

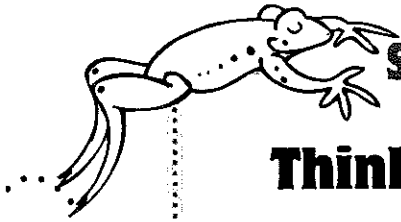
$8 + 8 = \underline{\quad}$

$10 - 5 = \underline{\quad}$

$9 + 9 = \underline{\quad}$

$18 - 9 = \underline{\quad}$

The above facts are: Tens Partners Doubles Plus Ten



Strategy

Think Addition

Every subtraction problem can be solved as addition.

Use addition to solve subtraction.

Add

Match

Subtract

$4 + 4 = \underline{8}$

$11 - 6 = \underline{\quad}$

$5 + 6 = \underline{\quad}$

$8 - 4 = \underline{4}$

$7 + 7 = \underline{\quad}$

$14 - 7 = \underline{\quad}$

$7 + 8 = \underline{\quad}$

$12 - 3 = \underline{\quad}$

$9 + 3 = \underline{\quad}$

$16 - 2 = \underline{\quad}$

$14 + 2 = \underline{\quad}$

$15 - 8 = \underline{\quad}$

$17 + 3 = \underline{\quad}$

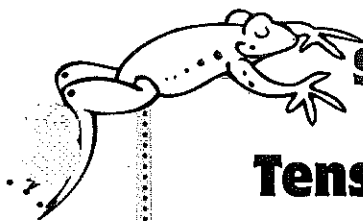
$20 - 3 = \underline{\quad}$

Write three addition facts. Match them to the related subtraction facts.

Add

Match

Subtract



Strategy

Tens Partners

If you know the Tens Partners,
then you know the related
subtraction facts.

Use the **Tens Partners** facts to solve subtraction.

$$2 + 8 = \underline{\quad\quad}$$

so

$$10 - \underline{\quad\quad} = 2$$

$$10 - \underline{\quad\quad} = 8$$

$$7 + 3 = \underline{\quad\quad}$$

so

$$10 - \underline{\quad\quad} = 7$$

$$10 - \underline{\quad\quad} = 3$$

$$9 + 1 = \underline{\quad\quad}$$

so

$$10 - \underline{\quad\quad} = 9$$

$$10 - \underline{\quad\quad} = 1$$

$$6 + 4 = \underline{\quad\quad}$$

so

$$10 - \underline{\quad\quad} = 6$$

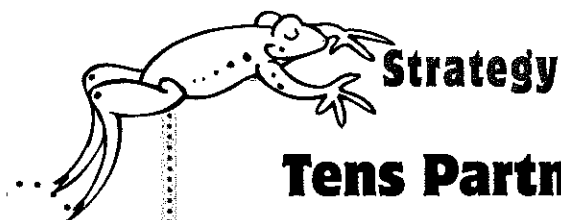
$$10 - \underline{\quad\quad} = 4$$

$$5 + 5 = \underline{\quad\quad}$$

so

$$10 - \underline{\quad\quad} = 5$$

$$10 - 5 = \underline{\quad\quad}$$



Tens Partners

If you know the Tens Partners,
then you know the related
subtraction facts.

Do the addition facts. Then apply addition to subtraction facts.

Tens Partners Addition

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 9 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array} \qquad \begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array} \qquad \begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array} \qquad \begin{array}{r} 10 \\ + 0 \\ \hline \end{array}$$

Tens Partners Subtraction

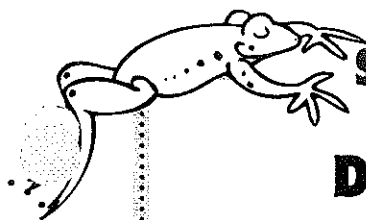
$$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array} \qquad \begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array} \qquad \begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 1 \\ \hline \end{array} \qquad \begin{array}{r} 10 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array} \qquad \begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline \end{array} \qquad \begin{array}{r} 10 \\ - 0 \\ \hline \end{array}$$

**Strategy****Doubles**

If you know the addition **Doubles**,
then you know the related
subtraction facts.

Apply addition to subtraction facts.

$2 + 2 = \underline{\quad}$

so

$4 - \underline{\quad} = 2$

$3 + 3 = \underline{\quad}$

so

$6 - \underline{\quad} = 3$

$4 + 4 = \underline{\quad}$

so

$8 - \underline{\quad} = 4$

$5 + 5 = \underline{\quad}$

so

$10 - \underline{\quad} = 5$

$6 + 6 = \underline{\quad}$

so

$12 - \underline{\quad} = 6$

$7 + 7 = \underline{\quad}$

so

$14 - \underline{\quad} = 7$

$8 + 8 = \underline{\quad}$

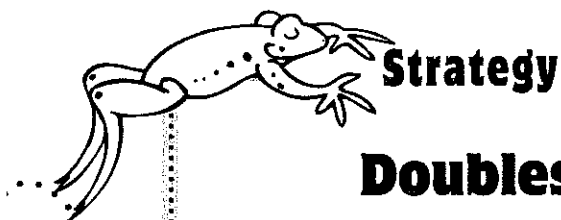
so

$16 - \underline{\quad} = 8$

$9 + 9 = \underline{\quad}$

so

$18 - \underline{\quad} = 9$

**Strategy****Doubles**

If you know the addition **Doubles**,
then you know the related
subtraction facts.

Do the addition facts. Then use addition to solve the subtraction facts.

Doubles Addition

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 11 \\ \hline \end{array}$$

Doubles Subtraction

$$\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 7 \\ \hline \end{array}$$

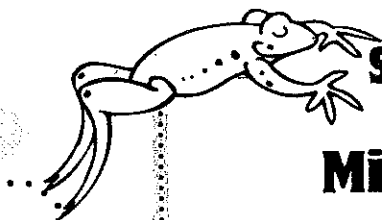
$$\begin{array}{r} 4 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$$

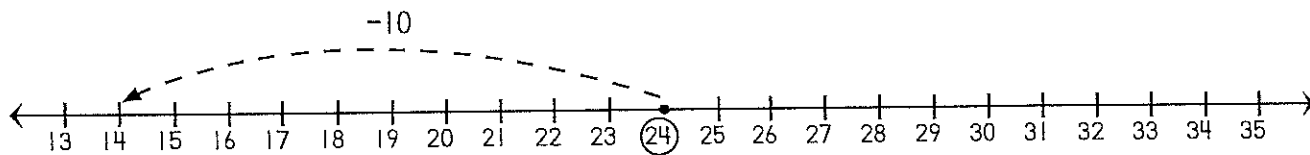
$$\begin{array}{r} 18 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ - 11 \\ \hline \end{array}$$

**Strategy****Minus Ten**

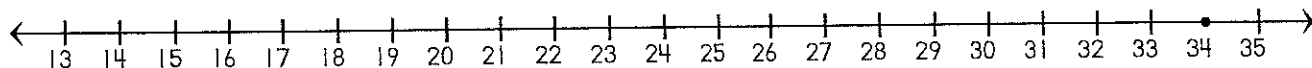
When you subtract 10, the tens-place digit decreases by one, and the ones-place digit stays the same.

Show $24 - 10 = \underline{\quad 14 \quad}$

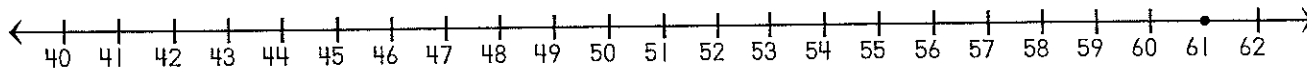


Jump back 10 on the number line.

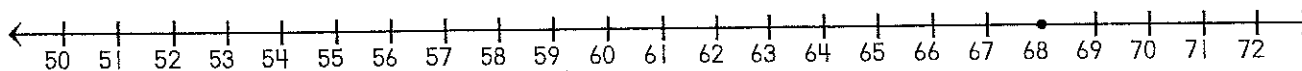
Show $34 - 10 = \underline{\quad}$



Show $61 - 10 = \underline{\quad}$



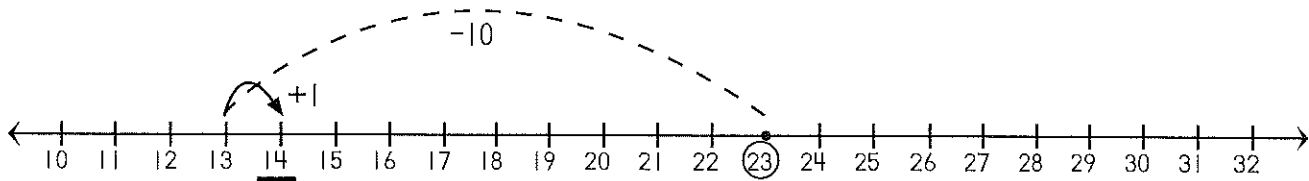
Show $68 - 10 = \underline{\quad}$



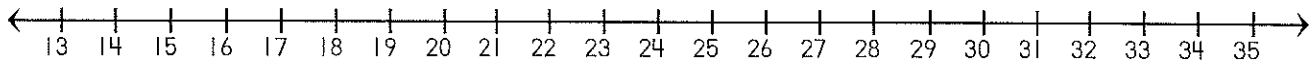
Strategy**Minus Nine****See 9. Think 10.**

When subtracting 9 from a number, subtract 10 and then add 1.

Show $23 - 9 = \underline{14}$



Jump back 10 and then go up one.
Use the number line.



$25 - 9 = \underline{\quad}$

$30 - 9 = \underline{\quad}$

$27 - 9 = \underline{\quad}$

$34 - 9 = \underline{\quad}$

Subtract.

$$\begin{array}{r} 15 \\ - 10 \\ \hline \end{array}$$

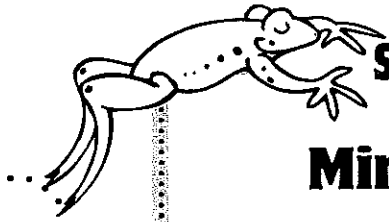
$$\begin{array}{r} 18 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 10 \\ \hline \end{array}$$

**Strategy****Minus Nine****See 9. Make 10.**

When subtracting 9 from a number, increase each number by one, and the difference stays the same.

Minus Nine

$$17 - 9 \text{ is the same as } 18 - 10 = 8$$

$$24 - 9 \text{ is the same as } 25 - 10 = 15$$

Minus Ten

Turn **Minus Nine** into **Minus Ten**. Solve.

$$15 - 9 \quad \rightarrow \quad \underline{16} - 10 = \underline{\quad}$$

$$21 - 9 \quad \rightarrow \quad \underline{22} - 10 = \underline{\quad}$$

$$25 - 9 \quad \rightarrow \quad \underline{\quad} - 10 = \underline{\quad}$$

$$33 - 9 \quad \rightarrow \quad \underline{\quad} - 10 = \underline{\quad}$$

$$27 - 9 \quad \rightarrow \quad \underline{\quad} - 10 = \underline{\quad}$$

$$55 - 9 \quad \rightarrow \quad \underline{\quad} - 10 = \underline{\quad}$$

$$44 - 9 \quad \rightarrow \quad \underline{\quad} - 10 = \underline{\quad}$$

$$22 - 9 \quad \rightarrow \quad \underline{\quad} - 10 = \underline{\quad}$$



**Mixed
Strategies
Practice**

Name _____

Subtraction

Strategy Names

Count Back

~~Count Up~~

A Number Minus Itself

Minus Ten

Doubles

Tens Partners

Complete each series.
Write the strategy name.

Strategy name

Count Up

$20 - 18 = \underline{\quad}$

$14 - 13 = \underline{\quad}$

$19 - 17 = \underline{\quad}$

$11 - 9 = \underline{\quad}$

$12 - 8 = \underline{\quad}$

$18 - 16 = \underline{\quad}$

Strategy name

$10 - 4 = \underline{\quad}$

$10 - 8 = \underline{\quad}$

$10 - 7 = \underline{\quad}$

$10 - 5 = \underline{\quad}$

$10 - 3 = \underline{\quad}$

$10 - 9 = \underline{\quad}$

Strategy name

$9 - 9 = \underline{\quad}$

$8 - 8 = \underline{\quad}$

$4 - 4 = \underline{\quad}$

$5 - 5 = \underline{\quad}$

$7 - 7 = \underline{\quad}$

$1 - 1 = \underline{\quad}$

Strategy name

$13 - 1 = \underline{\quad}$

$20 - 2 = \underline{\quad}$

$15 - 2 = \underline{\quad}$

$19 - 3 = \underline{\quad}$

$11 - 2 = \underline{\quad}$

$16 - 1 = \underline{\quad}$

Strategy name

$18 - 10 = \underline{\quad}$

$19 - 10 = \underline{\quad}$

$17 - 10 = \underline{\quad}$

$15 - 10 = \underline{\quad}$

$16 - 10 = \underline{\quad}$

$20 - 10 = \underline{\quad}$

Strategy name

$18 - 9 = \underline{\quad}$

$16 - 8 = \underline{\quad}$

$14 - 7 = \underline{\quad}$

$12 - 6 = \underline{\quad}$

$8 - 4 = \underline{\quad}$

$6 - 3 = \underline{\quad}$



**Mixed
Strategies
Practice**

Name _____

Which Strategy Fits?

Write each fact under the best strategy.
Solve the problems.

Count Back

A Number Minus Itself

Minus Zero

$10 - 0 = 10$

Minus Ten

Cross out the facts you use.

~~$10 - 0$~~

$16 - 1$

$19 - 10$

$15 - 15$

$10 - 10$

$18 - 2$

$18 - 18$

$13 - 0$

$12 - 0$

$14 - 10$

$12 - 3$

$17 - 10$



Mixed Strategies Practice

Name _____

Name the Strategy

Write each fact under the best strategy.

Solve the problems.

Doubles

$$6 - 3 = 3$$

Tens Partners

Count Up

Cross out the facts you use.

$7 - 5$

$8 - 4$

$15 - 14$

$12 - 6$

~~$6 - 3$~~

$10 - 9$

$10 - 6$

$9 - 6$

$13 - 11$

$14 - 7$

$10 - 7$

$18 - 9$



Subtraction Challenge

Subtract.

$\begin{array}{r} 19 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 19 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ - 1 \\ \hline \end{array}$
$\begin{array}{r} 20 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ - 6 \\ \hline \end{array}$
$\begin{array}{r} 18 \\ - 9 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ - 7 \\ \hline \end{array}$
$\begin{array}{r} 17 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ - 8 \\ \hline \end{array}$
$\begin{array}{r} 13 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ - 12 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ - 4 \\ \hline \end{array}$
$\begin{array}{r} 23 \\ - 20 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ - 9 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ - 2 \\ \hline \end{array}$

If the difference is between

Color the square

0 and 8

yellow

9 and 11

red

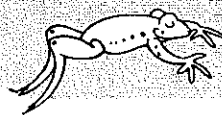
12 and 15

green

16 and 20

blue

How to Use Test Your Skills



The *Test Your Skills* exercises on pages 80–107 provide multiple opportunities for assessment of computational skills. Each test series—for addition and subtraction—begins with easier problems and increases in difficulty.

Each page in the *Test Your Skills* section may be used multiple times and in different ways to build computational skills and improve fact fluency.

Mixed Strategies Practice

The tests provide the opportunity to practice many of the computational strategies presented in the first part of this book. For each problem, students should ask themselves: Which strategy best suits the numbers involved?

Strategy Focus


Have students select one strategy at a time to practice. They examine the problems and then circle and solve those that fit the focus strategy.

Assessment

Use the tests to determine how students are progressing in their acquisition of computational skills. If appropriate, allow students to set their own goals for improvement of computation speed.

Student Self-Evaluation

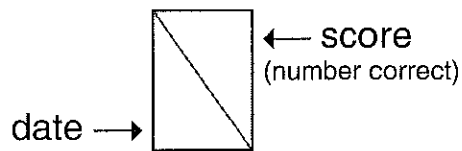
The record area at the bottom of each *Test Your Skills* page affords students the opportunity to assess their own performance and use of computational strategies. This self-evaluation is an important part of the skill-building process.

Minuends 0 to 7		Name _____		My Score _____	
Test 1					
Test Your Skills					
$\begin{array}{r} 4 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 6 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ - 0 \\ \hline \end{array}$
$\begin{array}{r} 3 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$
$\begin{array}{r} 4 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 5 \\ \hline \end{array}$
$\begin{array}{r} 3 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 5 \\ \hline \end{array}$
 How am I doing? <input type="checkbox"/> I got them all right! <input type="checkbox"/> I mixed a couple. <input type="checkbox"/> I will practice these (but up to 3 facts).		Accuracy <input type="checkbox"/> I used these strategies: <input type="checkbox"/> Count Back -1, -2, -3 <input type="checkbox"/> Count Up from bottom number <input type="checkbox"/> Double Subtraction		Efficiency <input type="checkbox"/> I finished in _____ <input type="checkbox"/> I finished in _____ <input type="checkbox"/> My next goal is _____	
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Student Assessment/Record

Name

How to use:



Test Levels	Addition—Sums						Subtraction—Minuends					
0 to 7												
7 to 10												
10 to 12												
13 to 15												
15 to 17												
15 to 20												
18 to 20												

Notes:

Class Assessment/Record



	Addition—Sums					Subtraction—Minuends					
	0 to 7	7 to 10	10 to 12	13 to 15	15 to 20	0 to 7	7 to 10	10 to 12	13 to 15	15 to 17	18 to 20

Test Your Skills

$$\begin{array}{r} 0 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

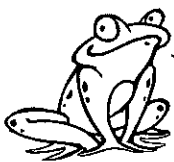
$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

I used these strategies:

- Plus Zero
- Count Up +1, +2, +3
- Doubles/Doubles Plus One

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

I used these strategies:

- Plus Zero
- Count Up +1, +2, +3
- Doubles/Doubles Plus One
- Tens Partners

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 4 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 5 facts.)

Efficiency

- I used these strategies:
- Count Back -1, -2, -3
 - Count Up from bottom number
 - Doubles Subtraction
 - Tens Partners Subtraction

Time

I finished in:

My next goal is:

How to Use Test Your Skills



The *Test Your Skills* exercises on pages 80–107 provide multiple opportunities for assessment of computational skills. Each test series—for addition and subtraction—begins with easier problems and increases in difficulty.

Each page in the *Test Your Skills* section may be used multiple times and in different ways to build computational skills and improve fact fluency.

Mixed Strategies Practice

The tests provide the opportunity to practice many of the computational strategies presented in the first part of this book. For each problem, students should ask themselves: Which strategy best suits the numbers involved?

Strategy Focus

Have students select one strategy at a time to practice. They examine the problems and then circle and solve those that fit the focus strategy.

Assessment

Use the tests to determine how students are progressing in their acquisition of computational skills. If appropriate, allow students to set their own goals for improvement of computation speed.

Student Self-Evaluation

The record area at the bottom of each *Test Your Skills* page affords students the opportunity to assess their own performance and use of computational strategies. This self-evaluation is an important part of the skill-building process.

Minuends 0 to 7						Name _____	My Score _____
Test 1							
Test Your Skills							
$\begin{array}{r} 4 \\ - 1 \end{array}$	$\begin{array}{r} 7 \\ - 5 \end{array}$	$\begin{array}{r} 3 \\ - 3 \end{array}$	$\begin{array}{r} 6 \\ - 4 \end{array}$	$\begin{array}{r} 6 \\ - 1 \end{array}$	$\begin{array}{r} 7 \\ - 6 \end{array}$		
$\begin{array}{r} 7 \\ - 0 \end{array}$	$\begin{array}{r} 2 \\ - 2 \end{array}$	$\begin{array}{r} 5 \\ - 1 \end{array}$	$\begin{array}{r} 7 \\ - 4 \end{array}$	$\begin{array}{r} 7 \\ - 2 \end{array}$	$\begin{array}{r} 2 \\ - 0 \end{array}$		
$\begin{array}{r} 3 \\ - 2 \end{array}$	$\begin{array}{r} 5 \\ - 4 \end{array}$	$\begin{array}{r} 2 \\ - 1 \end{array}$	$\begin{array}{r} 7 \\ - 3 \end{array}$	$\begin{array}{r} 5 \\ - 2 \end{array}$	$\begin{array}{r} 6 \\ - 2 \end{array}$		
$\begin{array}{r} 7 \\ - 3 \end{array}$	$\begin{array}{r} 6 \\ - 5 \end{array}$	$\begin{array}{r} 6 \\ - 3 \end{array}$	$\begin{array}{r} 4 \\ - 3 \end{array}$	$\begin{array}{r} 7 \\ - 5 \end{array}$	$\begin{array}{r} 5 \\ - 3 \end{array}$		
$\begin{array}{r} 4 \\ - 4 \end{array}$	$\begin{array}{r} 7 \\ - 0 \end{array}$	$\begin{array}{r} 4 \\ - 0 \end{array}$	$\begin{array}{r} 7 \\ - 1 \end{array}$	$\begin{array}{r} 6 \\ - 6 \end{array}$	$\begin{array}{r} 5 \\ - 5 \end{array}$		
$\begin{array}{r} 3 \\ - 1 \end{array}$	$\begin{array}{r} 5 \\ - 2 \end{array}$	$\begin{array}{r} 1 \\ - 0 \end{array}$	$\begin{array}{r} 4 \\ - 2 \end{array}$	$\begin{array}{r} 5 \\ - 0 \end{array}$	$\begin{array}{r} 6 \\ - 5 \end{array}$		
How am I doing? <input type="checkbox"/> I got them all right! <input type="checkbox"/> I missed a couple. <input type="checkbox"/> I will practice these (circle the 1-2 items).		Accuracy <input type="checkbox"/> I got them all right! <input type="checkbox"/> I missed a couple. <input type="checkbox"/> I will practice these (circle the 1-2 items).		Efficiency <input type="checkbox"/> I used these strategies: <input type="checkbox"/> Count Back -1, -2, -3 <input type="checkbox"/> Count Up from bottom number <input type="checkbox"/> Double Subtraction		Time <input type="checkbox"/> I finished in _____ My next goal is: _____	
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Test Your Skills

$$\begin{array}{r} 0 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

I used these strategies:

- Plus Zero
- Count Up +1, +2, +3
- Doubles/Doubles Plus One

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 2 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 3 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

I used these strategies:

- Plus Zero
- Count Up +1, +2, +3
- Doubles/Doubles Plus One

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 10 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

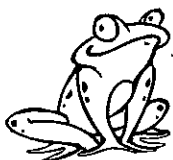
$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 0 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

I used these strategies:

- Plus Zero
- Count Up +1, +2, +3
- Doubles/Doubles Plus One
- Tens Partners

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$

How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

I used these strategies:

- Plus Zero
- Count Up +1, +2, +3
- Doubles/Doubles Plus One
- Tens Partners

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

I used these strategies:

- Plus Zero
- Count Up +1, +2, +3
- Doubles/Doubles Plus One
- Tens Partners

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 10 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 7 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

I used these strategies:

- Count Up +1, +2, +3
- Doubles/Doubles Plus One
- Tens Partners
- Plus Ten

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 7 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 3 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these: (List up to 4 facts.)

Efficiency

- I used these strategies:
- Count Up +1, +2, +3
 - Doubles/Doubles Plus One
 - Tens Partners
 - Plus Ten

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 13 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

I used these strategies:

- Count Up +1, +2, +3
- Doubles/Doubles Plus One
- Tens Partners
- Plus Ten/Plus Nine

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 8 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 4 \\ \hline \end{array}$$

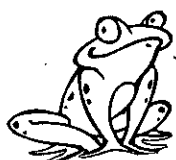
$$\begin{array}{r} 6 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 3 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

I used these strategies:

- Count Up +1, +2, +3
- Doubles/Doubles Plus One
- Tens Partners
- Plus Ten/Plus Nine

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 13 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 8 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

I used these strategies:

- Count Up +1, +2, +3
- Doubles/Doubles Plus One
- Tens Partners
- Plus Ten/Plus Nine

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 16 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ + 0 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

I used these strategies:

- Count Up +1, +2, +3
- Doubles/Doubles Plus One
- Tens Partners
- Plus Ten/Plus Nine

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 17 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ + 2 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

I used these strategies:

- Count Up +1, +2, +3
- Doubles/Doubles Plus One
- Tens Partners
- Plus Ten/Plus Nine

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 9 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

- I used these strategies:
- Count Up +1, +2, +3
 - Doubles/Doubles Plus One
 - Tens Partners
 - Plus Ten/Plus Nine

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 5 facts.)

Efficiency

I used these strategies:

- Count Back -1, -2, -3
- Count Up from bottom number
- Doubles Subtraction
- Tens Partners Subtraction

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 1 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 5 facts.)

Efficiency

- I used these strategies:
- Count Back -1, -2, -3
 - Count Up from bottom number
 - Doubles Subtraction
 - Tens Partners Subtraction

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 4 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 5 facts.)

Efficiency

- I used these strategies:
- Count Back -1, -2, -3
 - Count Up from bottom number
 - Doubles Subtraction
 - Tens Partners Subtraction

Time

I finished in:

My next goal is:

Test 1

Test Your Skills

$$\begin{array}{r} 10 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 6 \\ \hline \end{array}$$

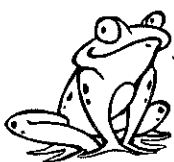
$$\begin{array}{r} 12 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 7 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

- I used these strategies:
- Count Back/Count Up
 - Think Addition
 - Other:

Time

I finished in:

My next goal is:

Test 2

Test Your Skills

$$\begin{array}{r} 12 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 10 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

- I used these strategies:
- Count Back/Count Up
 - Think Addition
 - Other:

Time

I finished in:

My next goal is:

Test 1

Test Your Skills

$$\begin{array}{r} 14 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 6 \\ \hline \end{array}$$



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Accuracy

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(List up to 4 facts.)

Efficiency

I used these strategies:

- Count Back/Count Up
- Think Addition
- Minus Ten/Minus Nine
- Other:

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 15 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 15 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 2 \\ \hline \end{array}$$



How am I doing?

Accuracy

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- I will practice these:
(List up to 4 facts.)

Efficiency

- I used these strategies:
- Count Back/Count Up
 - Think Addition
 - Minus Ten/Minus Nine
 - Other:

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 13 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

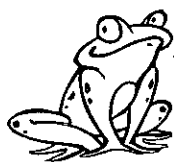
$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 5 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

I used these strategies:

- Count Back/Count Up
- Think Addition
- Minus Ten/Minus Nine
- Other:

Time

I finished in:

My next goal is:

Test 1

Test Your Skills

$$\begin{array}{r} 17 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 15 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 2 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these: (List up to 4 facts.)

Efficiency

- I used these strategies:
- Count Back/Count Up
 - Think Addition
 - Minus Ten/Minus Nine
 - Other:

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 16 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 15 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 7 \\ \hline \end{array}$$



How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

- I used these strategies:
- Count Back/Count Up
 - Think Addition
 - Minus Ten/Minus Nine
 - Other:

Time

I finished in:

My next goal is:

Test 1

Test Your Skills

$$\begin{array}{r} 18 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 20 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 0 \\ \hline \end{array}$$



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Accuracy

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Efficiency

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 - Minus Ten/Minus Nine
 - Other:

Time

I finished in:

My next goal is:

Test Your Skills

$$\begin{array}{r} 19 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 9 \\ \hline \end{array}$$



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Time

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My next goal is:

Test Your Skills

$$\begin{array}{r} 18 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 2 \\ \hline \end{array}$$

How am I doing?

Accuracy

- I got them all right!
- I missed a couple.
- I will practice these:
(List up to 4 facts.)

Efficiency

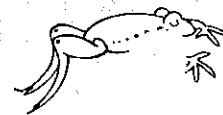
- I used these strategies:
- Count Back/Count Up
 - Think Addition
 - Minus Ten/Minus Nine
 - Other

Time

I finished in:

My next goal is:

How to Use Facts Flashcards



Practice with flashcards can help students gain automaticity with math facts. Flashcards enable students to work at their own pace and to focus on the specific facts that they need to learn.

Prepare the Flashcards

- Reproduce the cards that students need to practice. Within each operation, the cards progress from easier to more difficult facts. Keep the cards to a manageable number; add new cards as facts are mastered.
- Students cut the cards apart and store them in an envelope or a self-sealing plastic bag.

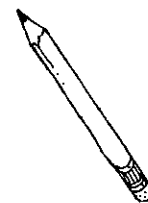
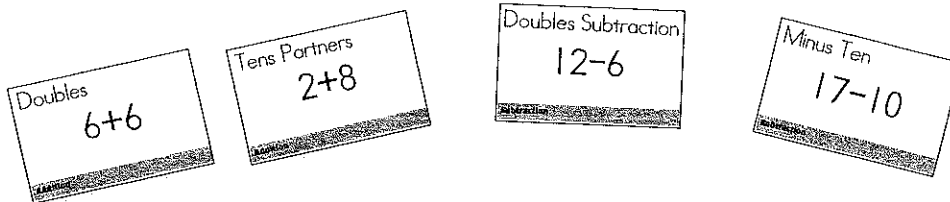
1+1	2+0	2+1	2+2
Addition	Addition	Addition	Addition
3+0	3+1	3+2	3+3
Addition	Addition	Addition	Addition
4+1	4+2	4+3	4+4
Addition	Addition	Addition	Addition

Tips for Practicing the Flashcards

- When students practice independently, encourage them to softly say the facts aloud to incorporate the aural modality.
- Have students practice with a partner. This is more fun and it ensures that students are computing each answer and not just looking at the answer. If an answer is incorrect, the partner should say, for example, “No, $8 + 6$ is 14.” Then the answering student should repeat the equation aloud.
- Have students sort and then practice the cards by the strategies they would use to compute the answers. For example:

Easy Facts—Plus Zero or Minus Zero; Count Up +1, +2, +3
 Doubles Addition or Doubles Subtraction
 Doubles Plus One
 Tens Partners
 Count Back or Count Up Subtraction

- Allow students to personalize their cards to show the strategies used to compute the answers.



$1+1$

Addition

$2+0$

Addition

$2+1$

Addition

$2+2$

Addition

$3+0$

Addition

$3+1$

Addition

$3+2$

Addition

$3+3$

Addition

$4+1$

Addition

$4+2$

Addition

$4+3$

Addition

$4+4$

Addition

4

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$5 + 0$

Addition

$5 + 1$

Addition

$5 + 2$

Addition

$5 + 3$

Addition

$5 + 4$

Addition

$5 + 5$

Addition

$6 + 0$

Addition

$6 + 1$

Addition

$6 + 2$

Addition

$6 + 3$

Addition

$6 + 4$

Addition

$6 + 5$

Addition

8

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$$6 + 6$$

Addition

$$7 + 0$$

Addition

$$7 + 1$$

Addition

$$7 + 2$$

Addition

$$7 + 3$$

Addition

$$7 + 4$$

Addition

$$7 + 5$$

Addition

$$7 + 6$$

Addition

$$7 + 7$$

Addition

$$8 + 0$$

Addition

$$8 + 1$$

Addition

$$8 + 2$$

Addition

9

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$8 + 3$

Addition

$8 + 4$

Addition

$8 + 5$

Addition

$8 + 6$

Addition

$8 + 7$

Addition

$8 + 8$

Addition

$9 + 0$

Addition

$9 + 1$

Addition

$9 + 2$

Addition

$9 + 3$

Addition

$9 + 4$

Addition

$9 + 5$

Addition

14

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$9 + 6$

Addition

$9 + 7$

Addition

$9 + 8$

Addition

$9 + 9$

Addition

$10 + 0$

Addition

$10 + 1$

Addition

$10 + 2$

Addition

$10 + 3$

Addition

$10 + 4$

Addition

$10 + 5$

Addition

$10 + 6$

Addition

$10 + 7$

Addition

18

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$10 + 8$

Addition

$10 + 9$

Addition

$10 + 10$

Addition

$11 + 0$

Addition

$11 + 1$

Addition

$11 + 2$

Addition

$11 + 3$

Addition

$11 + 4$

Addition

$11 + 5$

Addition

$11 + 6$

Addition

$11 + 7$

Addition

$11 + 8$

Addition

11

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$11+9$

Addition

$12+0$

Addition

$12+1$

Addition

$12+2$

Addition

$12+3$

Addition

$12+4$

Addition

$12+5$

Addition

$12+6$

Addition

$12+7$

Addition

$12+8$

Addition

$13+0$

Addition

$13+1$

Addition

14

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$13 + 2$

Addition

$13 + 3$

Addition

$13 + 4$

Addition

$13 + 5$

Addition

$13 + 6$

Addition

$13 + 7$

Addition

$14 + 0$

Addition

$14 + 1$

Addition

$14 + 2$

Addition

$14 + 3$

Addition

$14 + 4$

Addition

$14 + 5$

Addition

18

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$14 + 6$

Addition

$15 + 0$

Addition

$15 + 1$

Addition

$15 + 2$

Addition

$15 + 3$

Addition

$15 + 4$

Addition

$15 + 5$

Addition

$16 + 0$

Addition

$16 + 1$

Addition

$16 + 2$

Addition

$16 + 3$

Addition

$16 + 4$

Addition

17

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$17 + 0$

Addition

$17 + 1$

Addition

$17 + 2$

Addition

$18 + 0$

Addition

$18 + 1$

Addition

$18 + 2$

Addition

$19 + 0$

Addition

$19 + 1$

Addition

$20 + 0$

Addition

18

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$1 - 0$

Subtraction

$4 - 0$

Subtraction

$5 - 0$

Subtraction

$8 - 0$

Subtraction

$10 - 0$

Subtraction

$2 - 1$

Subtraction

$3 - 1$

Subtraction

$7 - 1$

Subtraction

$10 - 1$

Subtraction

$3 - 2$

Subtraction

$4 - 2$

Subtraction

$5 - 2$

Subtraction

8

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$6 - 2$

Subtraction

$7 - 2$

Subtraction

$8 - 2$

Subtraction

$9 - 2$

Subtraction

$10 - 2$

Subtraction

$3 - 3$

Subtraction

$4 - 3$

Subtraction

$5 - 3$

Subtraction

$6 - 3$

Subtraction

$7 - 3$

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$8 - 3$

Subtraction

$9 - 3$

Subtraction

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$10 - 3$

Subtraction

$5 - 4$

Subtraction

$6 - 4$

Subtraction

$7 - 4$

Subtraction

$8 - 4$

Subtraction

$9 - 4$

Subtraction

$10 - 4$

Subtraction

$5 - 5$

Subtraction

$6 - 5$

Subtraction

$7 - 5$

Subtraction

$8 - 5$

Subtraction

$9 - 5$

Subtraction

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$10 - 5$

Subtraction

$7 - 6$

Subtraction

$8 - 6$

Subtraction

$9 - 6$

Subtraction

$10 - 6$

Subtraction

$8 - 7$

Subtraction

$9 - 7$

Subtraction

$10 - 7$

Subtraction

$9 - 8$

Subtraction

$10 - 8$

Subtraction

$10 - 9$

Subtraction

$10 - 10$

Subtraction

3

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$20 - 0$

Subtraction

$20 - 1$

Subtraction

$11 - 2$

Subtraction

$12 - 2$

Subtraction

$13 - 2$

Subtraction

$11 - 4$

Subtraction

$12 - 4$

Subtraction

$13 - 4$

Subtraction

$14 - 4$

Subtraction

$15 - 4$

Subtraction

$16 - 4$

Subtraction

$17 - 4$

Subtraction

10

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$18 - 4$

Subtraction

$19 - 4$

Subtraction

$20 - 4$

Subtraction

$11 - 5$

Subtraction

$12 - 5$

Subtraction

$13 - 5$

Subtraction

$14 - 5$

Subtraction

$15 - 5$

Subtraction

$16 - 5$

Subtraction

$17 - 5$

Subtraction

$18 - 5$

Subtraction

$19 - 5$

Subtraction

6

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$20 - 5$

Subtraction

$11 - 6$

Subtraction

$12 - 6$

Subtraction

$13 - 6$

Subtraction

$14 - 6$

Subtraction

$15 - 6$

Subtraction

$16 - 6$

Subtraction

$17 - 6$

Subtraction

$18 - 6$

Subtraction

$19 - 6$

Subtraction

$20 - 6$

Subtraction

$11 - 7$

Subtraction

7

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$12 - 7$

Subtraction

$13 - 7$

Subtraction

$14 - 7$

Subtraction

$15 - 7$

Subtraction

$16 - 7$

Subtraction

$17 - 7$

Subtraction

$18 - 7$

Subtraction

$19 - 7$

Subtraction

$20 - 7$

Subtraction

$11 - 8$

Subtraction

$12 - 8$

Subtraction

$13 - 8$

Subtraction

8

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7

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$14 - 8$

Subtraction

$15 - 8$

Subtraction

$16 - 8$

Subtraction

$17 - 8$

Subtraction

$18 - 8$

Subtraction

$19 - 8$

Subtraction

$20 - 8$

Subtraction

$11 - 9$

Subtraction

$12 - 9$

Subtraction

$13 - 9$

Subtraction

$14 - 9$

Subtraction

$15 - 9$

Subtraction

9

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6

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2

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12

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11

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3

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$16 - 9$

Subtraction

$17 - 9$

Subtraction

$18 - 9$

Subtraction

$19 - 9$

Subtraction

$20 - 9$

Subtraction

$11 - 10$

Subtraction

$12 - 10$

Subtraction

$13 - 10$

Subtraction

$14 - 10$

Subtraction

$15 - 10$

Subtraction

$16 - 10$

Subtraction

$17 - 10$

Subtraction

10

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7

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3

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2

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1

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11

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7

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6

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5

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4

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Answer Key

Page 8

Strategy Plus Zero
Add 0 to a number and the number stays the same.

3 + 0 = 3

Add 0:

$$7 + 0 = 7$$

$$8 + 0 = 8$$

$$0 + 9 = 9$$

$$4 + 0 = 4$$

$$5 + 0 = 5$$

$$0 + 12 = 12$$

Add 0 to large numbers.

$$100 + 0 = 100$$

$$99 + 0 = 99$$

$$0 + 232 = 232$$

$$487 + 0 = 487$$

Write your own Plus Zero problems.
Answers will vary.

$\underline{\quad} + 0 = \underline{\quad}$

$0 + \underline{\quad} = \underline{\quad}$

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Strategy Count Up
Count Up when adding on small numbers, such as 1, 2, or 3.

To solve $7 + 2$, start at 7. Circle 7. Count up 2 hops. Underline the answer.

$$7 + 2 = 9$$

Add. Use the Count Up strategy. Show your hops on the number line.

$$6 + 1 = 7$$

$$4 + 2 = 6$$

$$5 + 3 = 8$$

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Page 10

Strategy Count Up
Count Up to add a small number to a larger number.

Find the sums. Use the number line.

$$4 + 1 = 5$$

$$8 + 2 = 10$$

$$13 + 1 = 14$$

$$1 + 3 = 4$$

$$7 + 2 = 9$$

$$14 + 3 = 17$$

Add. Use the number line.

$$17 + 1 = 18$$

$$6 + 3 = 9$$

$$5 + 3 = 8$$

$$9 + 3 = 12$$

$$13 + 1 = 14$$

$$9 + 2 = 11$$

$$11 + 2 = 13$$

$$10 + 3 = 13$$

$$8 + 3 = 11$$

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Strategy Count Up
Count Up to add a small number to a larger number.

Solve the problems. Use the number line.

$$19 + 1 = 20$$

$$13 + 2 = 15$$

$$16 + 1 = 17$$

$$8 + 3 = 11$$

$$19 + 2 = 21$$

$$14 + 2 = 16$$

Write your own Count Up problems.
Answers will vary.

$$\underline{\quad} + 1 = \underline{\quad}$$

$$\underline{\quad} + 2 = \underline{\quad}$$

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Page 12

Strategy Count Up
Count Up to add a small number to a larger number.

Count how many jumps you need to get to the answer.

$$6 + 1 = 7$$

$$9 + 2 = 11$$

$$3 + 3 = 6$$

$$15 + 1 = 16$$

$$12 + 2 = 14$$

$$7 + 3 = 10$$

Write your own Count Up problems.
Answers will vary.

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

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Page 13

Strategy Count Up
Count Up to add a small number to a larger number.

Use the number line to solve the problems.

$$5 + 2 = 7$$

$$6 + 2 = 8$$

$$8 + 1 = 9$$

$$7 + 3 = 10$$

$$12 + 3 = 15$$

$$14 + 3 = 17$$

Write your own Count Up problems.
Answers will vary.

$$\underline{\quad} + 1 = \underline{\quad}$$

$$\underline{\quad} + 2 = \underline{\quad}$$

$$\underline{\quad} + 3 = \underline{\quad}$$

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Page 14

Strategy Count Up
Count Up to add a small number to a larger number.

Start with the greater addend. Draw dots as you Count Up.

$$4 + 3 = 7$$

$$6 + 2 = 8$$

$$7 + 2 = 9$$

$$8 + 3 = 11$$

$$10 + 3 = 13$$

$$5 + 3 = 8$$

$$12 + 2 = 14$$

$$17 + 3 = 20$$

$$11 + 3 = 14$$

$$16 + 2 = 18$$

$$19 + 3 = 22$$

$$28 + 3 = 31$$

$$79 + 1 = 80$$

$$91 + 2 = 93$$

Write your own Count Up problems.
Answers will vary.

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

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Page 15

Strategy Count Up
Count Up to add a small number to a larger number.

Circle the greater number. Draw dots and Count Up from the largest addend.

$$6 + 3 = 9$$

$$1 + 5 = 6$$

$$10 + 2 = 12$$

$$3 + 8 = 11$$

$$16 + 3 = 19$$

$$2 + 11 = 13$$

$$14 + 2 = 16$$

$$1 + 15 = 16$$

$$3 + 9 = 12$$

$$3 + 13 = 16$$

$$7 + 3 = 10$$

$$18 + 1 = 19$$

$$0 + 2 = 2$$

$$3 + 15 = 18$$

Try these.

$$29 + 3 = 32$$

$$38 + 3 = 41$$

Write your own Count Up problems.
Answers will vary.

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

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Strategy Count Up
Count Up to add a small number to a larger number.

Solve the problems.

$$15 + 2 = 17$$

$$17 + 3 = 20$$

$$21 + 2 = 23$$

$$16 + 2 = 18$$

$$18 + 3 = 21$$

$$19 + 2 = 21$$

$$3 + 10 = 13$$

$$0 + 3 + 11 = 14$$

$$15 + 3 = 18$$

Think about how you solved the problems. Mark yes or no.

Did you:

draw dots to count up? $19 + 2$

count up from the larger number? $19 + 2$

use a number line? $19 + 2$

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Strategy Turn Around Add numbers in any order and the total stays the same.

When you learn one addition fact, you really learn two.

$1 + 2 = 3$ turn around $2 + 1 = 3$

$1 + 4 = 5$ turn around $4 + 1 = 5$

$2 + 3 = 5$ turn around $3 + 2 = 5$

Write the Turn Around fact.

$1 + 5 = 6$ $5 + 1 = 6$ $4 + 3 = 7$ $3 + 4 = 7$
 $7 + 4 = 11$ $4 + 7 = 11$ $10 + 2 = 12$ $2 + 10 = 12$
 $13 + 5 = 18$ $5 + 13 = 18$ $2 + 9 = 11$ $9 + 2 = 11$
 $99 + 1 = 100$ $1 + 99 = 100$ $100 + 3 = 103$ $3 + 100 = 103$

Strategy Doubles Add the number to itself and that number doubles.

Solve the Doubles facts.

$3 + 3 = 6$ $7 + 7 = 14$

$4 + 4 = 8$ $8 + 8 = 16$

$5 + 5 = 10$ $9 + 9 = 18$

$6 + 6 = 12$

Strategy Doubles Add the number to itself and that number doubles.

Match the picture with the Doubles fact.

$3 + 3 = 6$
 $8 + 8 = 16$
 $6 + 6 = 12$
 $5 + 5 = 10$
 $4 + 4 = 8$

Double 7. Make 7 tally marks on the first line. Then solve the problem.

$7 + 7 = 14$

Strategy Doubles Add the number to itself and that number doubles.

Draw dots to complete the double dominoes. Write the equations.

$1 + 1 = 2$ $3 + 3 = 6$

$4 + 4 = 8$ $5 + 5 = 10$

$6 + 6 = 12$ $8 + 8 = 16$

Draw dots to make double dominoes. Complete the equations.

$5 + 5 = 10$ $4 + 4 = 8$

$8 + 8 = 16$ $7 + 7 = 14$

Strategy Doubles Add the number to itself and that number doubles.

Make tally marks to help you find the sum. Complete the chart.

Doubles Fact	Tally Marks	Sum
$1 + 1$		2
$2 + 2$		4
$3 + 3$		6
$4 + 4$		8
$5 + 5$		10
$6 + 6$		12
$7 + 7$		14
$8 + 8$		16
$9 + 9$		18
$10 + 10$		20
$11 + 11$		22
$12 + 12$		24
$13 + 13$		26

Describe the pattern in your own words. **Answers will vary.**

Strategy Doubles Plus One Double the number and add one more.

Double the number. Add one more.

$4 + 4 = 8$ $4 + 5 = 9$

Solve the Doubles fact. Then solve the Doubles Plus One fact.

$5 + 5 = 10$ $5 + 6 = 11$

$6 + 6 = 12$ $6 + 7 = 13$

$7 + 7 = 14$ $7 + 8 = 15$

$8 + 8 = 16$ $8 + 9 = 17$

Strategy Doubles Plus One Double the number and add one more.

Doubles Fact: Double the number. $1 + 1 = 2$

Doubles Plus One Fact: Add one more dot and solve. $1 + 2 = 3$

Write the Doubles equation. Then write the Doubles Plus One equation.

$2 + 2 = 4$ $2 + 3 = 5$

$4 + 4 = 8$ $4 + 5 = 9$

$6 + 6 = 12$ $6 + 7 = 13$

Strategy Doubles Plus One Double the number and add one more.

Complete the number equations.

$3 + 3 = 6$ $3 + 4 = 7$

$5 + 5 = 10$ $5 + 6 = 11$

$6 + 6 = 12$ $6 + 7 = 13$

$8 + 8 = 16$ $8 + 9 = 17$

$7 + 7 = 14$ $7 + 8 = 15$

$9 + 9 = 18$ $9 + 10 = 19$

Solve these.

$10 + 10 = 20$ $10 + 11 = 21$

$20 + 20 = 40$ $20 + 21 = 41$

$100 + 100 = 200$ $100 + 101 = 201$

Strategy Doubles Plus One Double the number and add one more.

Solve and match. Each Doubles fact has two Doubles Plus One facts.

Doubles Facts: $3 + 3 = 6$, $4 + 4 = 8$, $5 + 5 = 10$, $6 + 6 = 12$, $7 + 7 = 14$, $8 + 8 = 16$

Doubles + 1 Facts: $5 + 6 = 11$, $6 + 5 = 11$, $3 + 4 = 7$, $4 + 3 = 7$, $4 + 5 = 9$, $5 + 4 = 9$, $6 + 7 = 13$, $7 + 6 = 13$, $8 + 9 = 17$, $9 + 8 = 17$, $7 + 8 = 15$, $8 + 7 = 15$

Strategy **Tens Partners** Number pairs that make 10 are called Tens Partners.

Color the boxes to show Tens Partners. Use blue for the first addend and orange for the second addend.

9	+	1	=	10
8	+	2	=	10
7	+	3	=	10
6	+	4	=	10
5	+	5	=	10
4	+	6	=	10
3	+	7	=	10
2	+	8	=	10
1	+	9	=	10

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Strategy **Tens Partners** Number pairs that make 10 are called Tens Partners.

Color the row to show Tens Partners. Use blue for the first addend and orange for the second addend. Then record the number model to complete each row.

1	+	9	=	10
2	+	8	=	10
3	+	7	=	10
4	+	6	=	10
5	+	5	=	10
6	+	4	=	10
7	+	3	=	10
8	+	2	=	10
9	+	1	=	10

This is often called the "tens staircase."

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Strategy **Tens Partners** Number pairs that make 10 are called Tens Partners.

Count the dark and light circles in each ten frame. Record the combinations of 10.

0	+	10	=	10
1	+	9	=	10
2	+	8	=	10
3	+	7	=	10
4	+	6	=	10
5	+	5	=	10

Complete the Turn Around facts.

8 + 2 = 10 and 2 + 8 = 10 6 + 4 = 10 and 4 + 6 = 10
 1 + 9 = 10 and 9 + 1 = 10 3 + 7 = 10 and 7 + 3 = 10

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Strategy **Tens Partners** Number pairs that make 10 are called Tens Partners.

Solve.

9 + 1 = 10 7 + 3 = 10 5 + 5 = 10

8	+	2	=	10
6	+	4	=	10
1	+	9	=	10
4	+	6	=	10

Circle the Tens Partners.

8 and 2 9 and 3 4 and 5
 7 and 2 1 and 9 10 and 0
 6 and 4 3 and 8 7 and 3

Write the number pairs that make 10.

0 + 10 10 + 0 1 + 9 9 + 1 2 + 8 8 + 2
 3 + 7 7 + 3 4 + 6 6 + 4 5 + 5

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Strategy **Plus Ten** When 10 is added to a number, the tens-place digit increases by one.

Start at 2 and jump up 10. 2 + 10 = 12

Start at 5 and jump up 10. 5 + 10 = 15

Start at 8 and jump up 10. 8 + 10 = 18

Start at 6 and jump up 10. 6 + 10 = 16

Complete the chart.

Number	Number + 10
2	12
5	15
6	16
8	18

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Strategy **Plus Ten** When 10 is added to a number, the tens-place digit increases by one.

Use the number grid to help you add 10. Shade the first number, add then shade where you land. Write the answer.

Start at 3 and add 10. 3 + 10 = 13
 Start at 6 and add 10. 6 + 10 = 16
 Start at 13 and add 10. 13 + 10 = 23
 Start at 16 and add 10. 16 + 10 = 26
 Start at 23 and add 10. 23 + 10 = 33
 Start at 33 and add 10. 33 + 10 = 43

Answers will vary.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

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Strategy **Plus Ten** When 10 is added to a number, the tens-place digit increases by one.

Add 10 to each number. Use the number grid to help you find the answer.

3 + 10 = 13 20 + 10 = 30
 6 + 10 = 16 31 + 10 = 41
 8 + 10 = 18 42 + 10 = 52
 12 + 10 = 22 53 + 10 = 63
 15 + 10 = 25 60 + 10 = 70

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70

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Strategy **Plus Ten** Jump 10. It's faster than counting by ones.

2 + 10 = 12

Jump 10 each time. Show it on the number lines.

13 + 10 = 23

44 + 10 = 54

Write your own equations. Use the number lines. Answers will vary.

___ + 10 = ___

___ + 10 = ___

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Strategy **Plus Ten** When 10 is added to a number, the tens-place digit increases by one.

Add 10 to each number. Fill in the chart.

Number	Number + 10
2	12
4	14
5	15
6	16
8	18
9	19
10	20
12	22

Number	Number + 10
13	23
15	25
20	30
30	40
45	55
90	100
95	105
100	110

Think: What happens when 10 is added to a number? What part of the number changes and what part stays the same? Answers will vary.

Word Box: digit, increase, add ten, ones place, tens place

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Strategy Plus Nine See 9, Think 10. When adding 9 to a number, add 10 and jump back one.

7 + 9 = 16

3 + 9 = 12

5 + 9 = 14

8 + 9 = 17

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Strategy Plus Nine See 9, Think 10. When adding 9 to a number, add 10 and jump back one.

6 + 9 = 15

4 + 9 = 13

12 + 9 = 21

15 + 9 = 24

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Strategy Plus Nine See 9, Think 10. When adding 9 to a number, add 10 and jump back one.

3 + 9 = 12

6 + 9 = 15

8 + 9 = 17

7 + 9 = 16

5 + 9 = 14

13 + 9 = 22

24 + 9 = 33

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Strategy Plus Nine See 9, Think 10. When adding 9 to a number, add 10 and jump back one.

5 + 9 is the same as $5 + 10 - 1 = 14$

9 + 9 is the same as $9 + 10 - 1 = 18$

7 + 9 is the same as $7 + 10 - 1 = 16$

4 + 9 is the same as $4 + 10 - 1 = 13$

8 + 9 is the same as $8 + 10 - 1 = 17$

16 + 9 is the same as $16 + 10 - 1 = 25$

23 + 9 is the same as $23 + 10 - 1 = 32$

Write and solve Plus Nine problems. Answers will vary.

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Strategy Plus Nine See 9, Make 10. Another way to add 9 to a number is to make the 9 a 10 by reducing the other addend by one.

5 + 9 = 14 turns into 4 + 10 = 14

3 + 9 = 12 turns into 2 + 10 = 12

4 + 9 = 13 turns into 3 + 10 = 13

Try it. Draw dots to show the new number.

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Strategy Plus Nine See 9, Make 10. Another way to add 9 to a number is to make the 9 a 10 by reducing the other addend by one.

Take one and give it to the 9.

Now you have 10.

6 + 9 = 15

8 + 9 = 17

5 + 9 = 14

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Strategy Plus Nine See 9, Make 10. Another way to add 9 to a number is to make the 9 a 10 by reducing the other addend by one.

Turn each Plus Nine problem into a Plus Ten problem.

4 + 9 turns into 3 + 10 = 13

7 + 9 turns into 6 + 10 = 16

8 + 9 turns into 7 + 10 = 17

6 + 9 turns into 5 + 10 = 15

3 + 9 turns into 2 + 10 = 12

11 + 9 turns into 10 + 10 = 20

The pattern I notice is **Answers will vary.**

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Strategy Plus Nine See 9, Make 10. Another way to add 9 to a number is to make the 9 a 10 by reducing the other addend by one.

Turn each Plus Nine problem into a Plus Ten problem.

5 + 9 turns into 4 + 10 = 14

9 + 9 turns into 8 + 10 = 18

2 + 9 turns into 1 + 10 = 11

12 + 9 turns into 11 + 10 = 21

13 + 9 turns into 12 + 10 = 22

24 + 9 turns into 23 + 10 = 33

6 + 9 turns into 5 + 10 = 15

16 + 9 turns into 15 + 10 = 25

This strategy is: confusing fun difficult easy other

Answers will vary.

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Mixed Strategies Practice See 9, Make 10. Another way to add 9 to a number is to make the 9 a 10 by reducing the other addend by one.

Circle the Doubles facts. Then solve the problems.

4 + 4 = 8

8 + 1 = 9

5 + 5 = 10

7 + 2 = 9

3 + 6 = 9

2 + 8 = 10

7 + 7 = 14

2 + 2 = 4

4 + 5 = 9

3 + 3 = 6

6 + 6 = 12

8 + 8 = 16

7 + 3 = 10

9 + 9 = 18

4 + 4 = 8

Think about Doubles. Solve the problems.

1 + 1 = 2

10 + 10 = 20

100 + 100 = 200

2 + 2 = 4

20 + 20 = 40

200 + 200 = 400

3 + 3 = 6

30 + 30 = 60

300 + 300 = 600

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Mixed Strategies Practice

Which Strategy Fits?

Cut and glue the facts under the best strategy.

<p>Plus Zero Add 0 to a number and the number stays the same.</p> <p>0 + 10 6 + 0 0 + 7 9 + 0</p>	<p>Count Up +1, +2, +3 Count up from the larger number. Add on 1, 2, or 3.</p> <p>8 + 1 6 + 2 4 + 3 9 + 3</p>
--	--

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Mixed Strategies Practice

Which Strategy Fits?

Cut and glue the facts under the best strategy.

<p>Doubles Add the number to itself.</p> <p>9 + 9 4 + 4 3 + 3 8 + 8</p>	<p>Doubles Plus One Double the number. Add one more.</p> <p>5 + 6 8 + 9 4 + 5 3 + 4</p>
--	--

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Mixed Strategies Practice

Which Strategy Fits?

Cut and glue the facts under the best strategy.

<p>See 9, Think 10 Then go back one.</p> <p>38 + 9 (38 + 10 - 1) 7 + 9 (7 + 10 - 1) 12 + 9 (12 + 10 - 1) 24 + 9 (24 + 10 - 1)</p>	<p>See 9, Make 10 Then reduce the other addend by one.</p> <p>6 + 9 (5 + 10) 5 + 9 (4 + 10) 8 + 9 (7 + 10) 4 + 9 (3 + 10)</p>
--	--

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Mixed Strategies Practice

Add and Color

Find the problems that you would solve using each strategy. Solve. Shade the boxes with the correct color.

Plus Zero—yellow Count Up—orange Doubles—red

+	0	1	2	3	4	5	6	7	8	9	10
0											
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											

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Mixed Strategies Practice

Color by Strategy

Find the problems that you would solve using each strategy. Solve. Shade the boxes with the correct color.

Tens Partners—yellow Plus Ten—blue Plus Nine—green

+	0	1	2	3	4	5	6	7	8	9	10
0											
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											

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Mixed Strategies Practice

What's Your Strategy?

Find the problems that you would solve using each strategy. Solve. Shade the boxes with the correct color.

Doubles—purple Doubles Plus One—blue Tens Partners—green

+	0	1	2	3	4	5	6	7	8	9	10
0											
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											

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Mixed Strategies Practice

Addition

Strategy Names

Count Up Tens Partners Doubles
Double Plus One Plus Nine Plus Ten

Complete each series. Write the strategy name.

<p>Count Up</p> <p>8 + 1 = 9 9 + 3 = 12 14 + 2 = 16 19 + 1 = 20 15 + 2 = 17 11 + 3 = 14</p>	<p>Doubles</p> <p>9 + 9 = 18 8 + 8 = 16 7 + 7 = 14 6 + 6 = 12 5 + 5 = 10 10 + 10 = 20</p>	<p>Tens Partners</p> <p>0 + 10 = 10 8 + 2 = 10 4 + 6 = 10 5 + 5 = 10 7 + 3 = 10 1 + 9 = 10</p>
<p>Doubles Plus One</p> <p>3 + 4 = 7 4 + 5 = 9 5 + 6 = 11 7 + 8 = 15 8 + 9 = 17 9 + 10 = 19</p>	<p>Plus Ten</p> <p>8 + 10 = 18 9 + 10 = 19 7 + 10 = 17 5 + 10 = 15 6 + 10 = 16 11 + 10 = 21</p>	<p>Plus Nine</p> <p>8 + 9 = 17 9 + 9 = 18 7 + 9 = 16 5 + 9 = 14 6 + 9 = 15 4 + 9 = 13</p>

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Mixed Strategies Practice

Addition Power

Add and color.

9 + 9 = 18 b 18	4 + 4 = 8 y 7	8 + 2 = 10 r 10	7 + 8 = 15 g 15	10 + 8 = 18 b 18
5 + 1 = 6 y 6	9 + 3 = 12 g 12	6 + 9 = 15 g 15	12 + 7 = 19 y 19	4 + 4 = 8 y 8
1 + 9 = 10 r 10	6 + 8 = 14 g 14	8 + 8 = 16 b 16	6 + 0 = 6 y 6	6 + 3 = 9 r 9
7 + 5 = 12 g 12	14 + 5 = 19 b 19	3 + 5 = 8 y 8	5 + 7 = 12 g 12	7 + 7 = 14 g 14
13 + 7 = 20 b 20	2 + 7 = 9 r 9	3 + 7 = 10 r 10	7 + 6 = 13 g 13	16 + 2 = 18 b 18
6 + 2 = 8 y 8	4 + 6 = 10 r 10	6 + 6 = 12 g 12	11 + 8 = 19 b 19	4 + 2 = 6 y 6

If the sum is between _____ Color the square _____
 0 and 8 yellow
 9 and 11 red
 12 and 15 green
 16 and 20 blue

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Mixed Strategies Practice

Strategy

Minus Zero

Subtract 0 and the number stays the same.

4 - 0 = 4

Subtract 0.

5 - 0 = 5
8 - 0 = 8
9 - 0 = 9
14 - 0 = 14
5 - 0 = 5
12 - 0 = 12

Find the difference.

105 - 0 = 105
99 - 0 = 99
321 - 0 = 321
56 - 0 = 56

Write your own Minus Zero problems.

Answers will vary.

0 - 0 = 0
0 - 0 = 0
0 - 0 = 0

I'm still the same.
Fred - 0 = Fred

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Strategy **A Number Minus Itself** Subtract a number from itself and the result is 0.

8 - 8 = 0

Subtract the number from itself.

5 - 5 = 0 9 - 9 = 0
7 - 7 = 0 12 - 12 = 0
3 - 3 = 0 15 - 15 = 0

Write problems in which the difference is 0. **Answers will vary.**

$\square - \square = 0$ $\square - \square = 0$
 $\square - \square = 0$ $\square - \square = 0$

$\square - \square = 0$ $\square - \square = 0$ $\square - \square = 0$

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Strategy **Count Back** -1, -2, -3 Count Back to take away small numbers, such as 1, 2, or 3.

5 - 3 = 2

Use the number line to Count Back.

Start at 11 and count back 2.

11 - 2 = 9

Start at 9 and count back 3.

9 - 3 = 6

Start at 14 and count back 2.

14 - 2 = 12

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Strategy **Count Back** -1, -2, -3 Count Back to take away small numbers, such as 1, 2, or 3.

Count Back to find the difference. Use the number line if you like.

6 - 1 = 5 11 - 3 = 8 14 - 3 = 11
15 - 1 = 14 9 - 2 = 7 12 - 3 = 9
14 - 2 = 12 6 - 3 = 3 3 - 2 = 1

$\frac{5}{-2} = \frac{15}{-3}$ $\frac{4}{-1} = \frac{10}{-2}$ $\frac{6}{-3} = \frac{6}{-2}$

Count Back in your head. Write the difference.

11 - 2 = 9 13 - 2 = 11 8 - 2 = 6
16 - 15 = 1 8 - 7 = 1 13 - 12 = 1
17 - 2 = 15 9 - 3 = 6 15 - 3 = 12

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Strategy **Count Back** -1, -2, -3 Count Back to take away small numbers, such as 1, 2, or 3.

Count Back to subtract. Use the number line if you like.

16 - 2 = 14 8 - 3 = 5
22 - 1 = 21 19 - 2 = 17
11 - 3 = 8 14 - 1 = 13

Complete the equations.

22 - 2 = 20 17 - 1 = 16
10 - 3 = 7 15 - 3 = 12
8 - 2 = 6 18 - 2 = 16
13 - 3 = 10 16 - 2 = 14

Write your own equations. **Answers will vary.**

$\square - 2 = \square$ $\square - 3 = \square$
 $\square - 1 = \square$ $\square - 2 = \square$

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Strategy **Count Up** Count Up to find the difference between the numbers.

Start at 9. Count Up to 11. The number of hops is the difference.

11 - 9 = 2

Use the number line to Count Up.

Start at 12. Count up to 15. The number of hops is the difference.

15 - 12 = 3

Start at 9. Count up to 12. The number of hops is the difference.

12 - 9 = 3

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Strategy **Count Up** Count Up to find the difference.

Use the number line to Count Up. Solve.

5 - 4 = 1 9 - 8 = 1 16 - 15 = 1
15 - 4 = 11 14 - 12 = 2 12 - 11 = 1

Count Up from the bottom number with tally marks. Solve.

$\frac{11}{-9} = \frac{2}{2}$ $\frac{18}{-16} = \frac{2}{2}$ $\frac{18}{-15} = \frac{3}{3}$ $\frac{5}{-3} = \frac{2}{2}$
 $\frac{15}{-12} = \frac{3}{3}$ $\frac{12}{-10} = \frac{2}{2}$ $\frac{7}{-5} = \frac{2}{2}$ $\frac{15}{-14} = \frac{1}{1}$

Count Up with dots. Solve.

$\frac{14}{15} = \frac{1}{2}$ $\frac{11}{11} = \frac{0}{8}$ $\frac{9}{9} = \frac{0}{7}$
 $\frac{13}{13} = \frac{0}{2}$ $\frac{8}{8} = \frac{0}{6}$ $\frac{17}{17} = \frac{0}{16}$

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Strategy **Which Strategy Fits?**

Count Back Count back when subtracting a small number. Count Back works for -1, -2, -3 problems.

100 - 2 = 98

It is fast to count back 2.

Count Up Count up when subtracting a large number. Count Up works best when the numbers in the problem are close together.

100 - 99 = 1

It is too far to count back 99. It is easy to count up from 99.

Circle Count Back problems in blue. Circle Count Up problems in red. Solve.

20 - 1 = 19 **b** 20 - 18 = 2 **r** 20 - 3 = 17 **b**
14 - 2 = 12 **b** 14 - 11 = 3 **r** 13 - 2 = 11 **b**
9 - 1 = 8 **b** 19 - 1 = 18 **b** 19 - 16 = 3 **r**

Bonus problems:

80 - 1 = 79 80 - 76 = 4 95 - 3 = 92
99 - 2 = 97 59 - 58 = 1 41 - 40 = 1

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Strategy **Think Addition** Every subtraction problem can be solved as addition.

7 - 5 = 2 is the same as 2 + 5 = 7

Solve the subtraction problem. Rewrite it as an addition problem.

Subtraction	Addition
12 - 9 = 3	3 + 9 = 12
11 - 7 = 4	4 + 7 = 11
13 - 8 = 5	5 + 8 = 13
14 - 7 = 7	7 + 7 = 14
15 - 9 = 6	6 + 9 = 15
11 - 5 = 6	6 + 5 = 11
12 - 7 = 5	5 + 7 = 12

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Strategy **Think Addition** Every subtraction problem can be solved as addition.

Use addition to solve subtraction. Solve and match.

4 + 6 = 10 10 - 5 = 5
2 + 8 = 10 10 - 6 = 4
3 + 7 = 10 10 - 8 = 2
1 + 9 = 10 10 - 9 = 1
5 + 5 = 10 10 - 7 = 3

The above facts are: Tens Partners Doubles Plus Ten

5 + 5 = 10 12 - 6 = 6
6 + 6 = 12 14 - 7 = 7
7 + 7 = 14 16 - 8 = 8
8 + 8 = 16 10 - 5 = 5
9 + 9 = 18 18 - 9 = 9

The above facts are: Tens Partners Doubles Plus Ten

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Strategy **Think Addition**

Every subtraction problem can be solved as addition.

Use addition to solve subtraction.

Add	Match	Subtract
$4 + 4 = 8$		$11 - 6 = 5$
$5 + 6 = 11$		$8 - 4 = 4$
$7 + 7 = 14$		$14 - 7 = 7$
$7 + 8 = 15$		$12 - 3 = 9$
$9 + 3 = 12$		$16 - 2 = 14$
$14 + 2 = 16$		$15 - 8 = 7$
$17 + 3 = 20$		$20 - 3 = 17$

Write three addition facts. Match them to the related subtraction facts.

Add	Match	Subtract
_____	_____	_____
_____	_____	_____
_____	_____	_____

Answers will vary.

Strategy **Tens Partners**

If you know the Tens Partners, then you know the related subtraction facts.

Use the Tens Partners facts to solve subtraction.

$2 + 8 = 10$	so	$10 - 8 = 2$
$7 + 3 = 10$	so	$10 - 3 = 7$
$9 + 1 = 10$	so	$10 - 1 = 9$
$6 + 4 = 10$	so	$10 - 4 = 6$
$5 + 5 = 10$	so	$10 - 5 = 5$

Strategy **Tens Partners**

If you know the Tens Partners, then you know the related subtraction facts.

Do the addition facts. Then apply addition to subtraction facts.

Tens Partners Addition	Tens Partners Subtraction
$\begin{array}{r} 3 \\ + 7 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ - 8 \\ \hline 2 \end{array}$
$\begin{array}{r} 1 \\ + 9 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ - 3 \\ \hline 7 \end{array}$
$\begin{array}{r} 8 \\ + 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ - 1 \\ \hline 9 \end{array}$
$\begin{array}{r} 7 \\ + 3 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ - 9 \\ \hline 1 \end{array}$
$\begin{array}{r} 5 \\ + 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ - 6 \\ \hline 4 \end{array}$

Strategy **Doubles**

If you know the addition Doubles, then you know the related subtraction facts.

Apply addition to subtraction facts.

$2 + 2 = 4$	so	$4 - 2 = 2$
$3 + 3 = 6$	so	$6 - 3 = 3$
$4 + 4 = 8$	so	$8 - 4 = 4$
$5 + 5 = 10$	so	$10 - 5 = 5$
$6 + 6 = 12$	so	$12 - 6 = 6$
$7 + 7 = 14$	so	$14 - 7 = 7$
$8 + 8 = 16$	so	$16 - 8 = 8$
$9 + 9 = 18$	so	$18 - 9 = 9$

Strategy **Doubles**

If you know the addition Doubles, then you know the related subtraction facts.

Do the addition facts. Then use addition to solve the subtraction facts.

Doubles Addition	Doubles Subtraction
$\begin{array}{r} 5 \\ + 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ - 5 \\ \hline 5 \end{array}$
$\begin{array}{r} 8 \\ + 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 16 \\ - 8 \\ \hline 8 \end{array}$
$\begin{array}{r} 4 \\ + 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 8 \\ - 4 \\ \hline 4 \end{array}$
$\begin{array}{r} 7 \\ + 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 14 \\ - 7 \\ \hline 7 \end{array}$
$\begin{array}{r} 10 \\ + 10 \\ \hline 20 \end{array}$	$\begin{array}{r} 20 \\ - 10 \\ \hline 10 \end{array}$

Strategy **Minus Ten**

When you subtract 10, the tens place digit decreases by one, and the ones place digit stays the same.

Use the number grid to help you jump back 10 each time.

$50 - 10 = 40$ $15 - 10 = 5$ $28 - 10 = 18$
 $40 - 10 = 30$ $33 - 10 = 23$ $26 - 10 = 16$
 $39 - 10 = 29$ $24 - 10 = 14$ $17 - 10 = 7$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

What happens to a number when 10 is subtracted?
 What part changes and what part stays the same?

Answers will vary.

Strategy **Minus Ten**

When you subtract 10, the tens place digit decreases by one, and the ones place digit stays the same.

Show $24 - 10 = 14$

Jump back 10 on the number line.

Show $34 - 10 = 24$

Show $61 - 10 = 51$

Show $68 - 10 = 58$

Strategy **Minus Nine**

See 9, Think 10. When subtracting 9 from a number, subtract 10 and then add 1.

Show $23 - 9 = 14$

Jump back 10 and then go up one. Use the number line.

$25 - 9 = 16$ $30 - 9 = 21$
 $27 - 9 = 18$ $34 - 9 = 25$

Subtract.

$\begin{array}{r} 15 \\ - 10 \\ \hline 5 \end{array}$	$\begin{array}{r} 18 \\ - 9 \\ \hline 9 \end{array}$	$\begin{array}{r} 14 \\ - 10 \\ \hline 4 \end{array}$	$\begin{array}{r} 19 \\ - 10 \\ \hline 9 \end{array}$	$\begin{array}{r} 16 \\ - 9 \\ \hline 7 \end{array}$	$\begin{array}{r} 13 \\ - 10 \\ \hline 3 \end{array}$
---	--	---	---	--	---

Strategy **Minus Nine**

See 9, Make 10. When subtracting 9 from a number, increase each number by one, and the difference stays the same.

Minus Nine Minus Ten

$17 - 9$ is the same as $18 - 10 = 8$
 $24 - 9$ is the same as $25 - 10 = 15$

Turn Minus Nine into Minus Ten. Solve.

$15 - 9 \rightarrow 16 - 10 = 6$
 $21 - 9 \rightarrow 22 - 10 = 12$
 $25 - 9 \rightarrow 26 - 10 = 16$
 $33 - 9 \rightarrow 34 - 10 = 24$
 $27 - 9 \rightarrow 28 - 10 = 18$
 $55 - 9 \rightarrow 56 - 10 = 46$
 $44 - 9 \rightarrow 45 - 10 = 35$
 $22 - 9 \rightarrow 23 - 10 = 13$

Mixed Strategies Practice Name _____

Subtraction

Strategy Names
Count Back Count-Up A Number Minus Itself
Minus Ten Doubles Tens Partners

Complete each series. Write the strategy name.

Strategy name	Strategy name	Strategy name
Count Up 20 - 18 = <u>2</u> 14 - 13 = <u>1</u> 19 - 17 = <u>2</u> 11 - 9 = <u>2</u> 12 - 8 = <u>4</u> 18 - 16 = <u>2</u>	Tens Partners 10 - 4 = <u>6</u> 10 - 8 = <u>2</u> 10 - 7 = <u>3</u> 10 - 5 = <u>5</u> 10 - 3 = <u>7</u> 10 - 9 = <u>1</u>	A Number Minus Itself 9 - 9 = <u>0</u> 8 - 8 = <u>0</u> 4 - 4 = <u>0</u> 5 - 5 = <u>0</u> 7 - 7 = <u>0</u> 1 - 1 = <u>0</u>
Count Back 13 - 1 = <u>12</u> 20 - 2 = <u>18</u> 15 - 2 = <u>13</u> 19 - 3 = <u>16</u> 11 - 2 = <u>9</u> 16 - 1 = <u>15</u>	Minus Ten 18 - 10 = <u>8</u> 19 - 10 = <u>9</u> 17 - 10 = <u>7</u> 15 - 10 = <u>5</u> 16 - 10 = <u>6</u> 20 - 10 = <u>10</u>	Doubles 18 - 9 = <u>9</u> 16 - 8 = <u>8</u> 14 - 7 = <u>7</u> 12 - 6 = <u>6</u> 8 - 4 = <u>4</u> 6 - 3 = <u>3</u>

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Mixed Strategies Practice Name _____

Which Strategy Fits?

Write each fact under the best strategy. Solve the problems.

Count Back 16 - 1 = 15 18 - 2 = 16 12 - 3 = 9	A Number Minus Itself 18 - 18 = 0 15 - 15 = 0 10 - 10 = 0
Minus Ten 10 - 0 = 10 13 - 0 = 13 12 - 0 = 12	Minus Ten 19 - 10 = 9 14 - 10 = 4 17 - 10 = 7

Circle out the facts you use.

<input type="checkbox"/> 10 - 0	<input type="checkbox"/> 10 - 10	<input type="checkbox"/> 12 - 0
<input type="checkbox"/> 16 - 1	<input type="checkbox"/> 18 - 2	<input type="checkbox"/> 14 - 10
<input type="checkbox"/> 19 - 10	<input type="checkbox"/> 18 - 18	<input type="checkbox"/> 12 - 3
<input type="checkbox"/> 15 - 15	<input type="checkbox"/> 13 - 0	<input type="checkbox"/> 17 - 10

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Mixed Strategies Practice Name _____

Name the Strategy

Write each fact under the best strategy. Solve the problems.

Doubles 6 - 3 = 3 12 - 6 = 6 14 - 7 = 7	Tens Partners 12 - 6 = 6 18 - 9 = 9 10 - 6 = 4 10 - 7 = 3 10 - 9 = 1
Count Up 7 - 5 = 2 15 - 14 = 1	Minus Ten 8 - 4 9 - 6 10 - 9 10 - 7 18 - 9

Circle out the facts you use.

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Mixed Strategies Practice Name _____

Subtraction Challenge

Subtract.

$\begin{array}{r} 19 \\ -3 \\ \hline 16 \end{array}$	$\begin{array}{r} 20 \\ -5 \\ \hline 15 \end{array}$	$\begin{array}{r} 18 \\ -9 \\ \hline 9 \end{array}$	$\begin{array}{r} 19 \\ -8 \\ \hline 11 \end{array}$	$\begin{array}{r} 17 \\ -9 \\ \hline 8 \end{array}$	$\begin{array}{r} 17 \\ -1 \\ \hline 16 \end{array}$
$\begin{array}{r} 18 \\ -7 \\ \hline 11 \end{array}$	$\begin{array}{r} 16 \\ -8 \\ \hline 8 \end{array}$	$\begin{array}{r} 20 \\ -7 \\ \hline 13 \end{array}$	$\begin{array}{r} 17 \\ -8 \\ \hline 9 \end{array}$	$\begin{array}{r} 14 \\ -5 \\ \hline 9 \end{array}$	$\begin{array}{r} 16 \\ -8 \\ \hline 8 \end{array}$
$\begin{array}{r} 13 \\ -1 \\ \hline 12 \end{array}$	$\begin{array}{r} 12 \\ -7 \\ \hline 5 \end{array}$	$\begin{array}{r} 14 \\ -5 \\ \hline 9 \end{array}$	$\begin{array}{r} 13 \\ -7 \\ \hline 6 \end{array}$	$\begin{array}{r} 11 \\ -7 \\ \hline 4 \end{array}$	$\begin{array}{r} 16 \\ -4 \\ \hline 12 \end{array}$
$\begin{array}{r} 23 \\ -20 \\ \hline 3 \end{array}$	$\begin{array}{r} 11 \\ -9 \\ \hline 2 \end{array}$	$\begin{array}{r} 16 \\ -6 \\ \hline 10 \end{array}$	$\begin{array}{r} 11 \\ -8 \\ \hline 3 \end{array}$	$\begin{array}{r} 18 \\ -2 \\ \hline 16 \end{array}$	$\begin{array}{r} 18 \\ -2 \\ \hline 16 \end{array}$

If the difference is between: Color the square

0 and 5	yellow
6 and 11	red
12 and 15	green
16 and 20	blue

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Mixed Strategies Practice Name _____ My Score _____

Sums 0 to 7 Test 1

Test Your Skills

$\begin{array}{r} 0 \\ +0 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ +1 \\ \hline 2 \end{array}$	$\begin{array}{r} 2 \\ +2 \\ \hline 4 \end{array}$	$\begin{array}{r} 3 \\ +3 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ +0 \\ \hline 3 \end{array}$	$\begin{array}{r} 2 \\ +2 \\ \hline 4 \end{array}$	$\begin{array}{r} 4 \\ +0 \\ \hline 4 \end{array}$
$\begin{array}{r} 4 \\ +2 \\ \hline 6 \end{array}$	$\begin{array}{r} 4 \\ +3 \\ \hline 7 \end{array}$	$\begin{array}{r} 5 \\ +1 \\ \hline 6 \end{array}$	$\begin{array}{r} 5 \\ +2 \\ \hline 7 \end{array}$	$\begin{array}{r} 1 \\ +5 \\ \hline 6 \end{array}$	$\begin{array}{r} 1 \\ +6 \\ \hline 7 \end{array}$	$\begin{array}{r} 6 \\ +1 \\ \hline 7 \end{array}$
$\begin{array}{r} 2 \\ +2 \\ \hline 4 \end{array}$	$\begin{array}{r} 2 \\ +4 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ +0 \\ \hline 2 \end{array}$	$\begin{array}{r} 2 \\ +3 \\ \hline 5 \end{array}$	$\begin{array}{r} 2 \\ +4 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ +3 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ +0 \\ \hline 3 \end{array}$
$\begin{array}{r} 1 \\ +0 \\ \hline 1 \end{array}$	$\begin{array}{r} 0 \\ +2 \\ \hline 2 \end{array}$	$\begin{array}{r} 3 \\ +3 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ +1 \\ \hline 4 \end{array}$	$\begin{array}{r} 2 \\ +2 \\ \hline 4 \end{array}$	$\begin{array}{r} 2 \\ +4 \\ \hline 6 \end{array}$	$\begin{array}{r} 1 \\ +7 \\ \hline 8 \end{array}$
$\begin{array}{r} 4 \\ +3 \\ \hline 7 \end{array}$	$\begin{array}{r} 5 \\ +0 \\ \hline 5 \end{array}$	$\begin{array}{r} 5 \\ +2 \\ \hline 7 \end{array}$	$\begin{array}{r} 3 \\ +4 \\ \hline 7 \end{array}$	$\begin{array}{r} 6 \\ +0 \\ \hline 6 \end{array}$	$\begin{array}{r} 6 \\ +1 \\ \hline 7 \end{array}$	$\begin{array}{r} 1 \\ +6 \\ \hline 7 \end{array}$
$\begin{array}{r} 2 \\ +5 \\ \hline 7 \end{array}$	$\begin{array}{r} 4 \\ +2 \\ \hline 6 \end{array}$	$\begin{array}{r} 1 \\ +3 \\ \hline 4 \end{array}$	$\begin{array}{r} 7 \\ +0 \\ \hline 7 \end{array}$	$\begin{array}{r} 2 \\ +3 \\ \hline 5 \end{array}$	$\begin{array}{r} 3 \\ +4 \\ \hline 7 \end{array}$	$\begin{array}{r} 4 \\ +3 \\ \hline 7 \end{array}$

How am I doing? Accuracy: 0-3 got them all right; 4-5 got 2 or 3 right; 6-7 got 1 or 2 right; 8-9 got none right.

Efficiency: I used these strategies: _____
 Plus Ten Count Up $\pm 1, \pm 2, \pm 3$
 Doubles/Doubles Plus One Tens Partners

Time I finished in: _____ My next goal is: _____

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Mixed Strategies Practice Name _____ My Score _____

Sums 0 to 7 Test 2

Test Your Skills

$\begin{array}{r} 2 \\ +3 \\ \hline 5 \end{array}$	$\begin{array}{r} 4 \\ +3 \\ \hline 7 \end{array}$	$\begin{array}{r} 4 \\ +1 \\ \hline 5 \end{array}$	$\begin{array}{r} 3 \\ +2 \\ \hline 5 \end{array}$	$\begin{array}{r} 4 \\ +2 \\ \hline 6 \end{array}$	$\begin{array}{r} 4 \\ +2 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ +1 \\ \hline 4 \end{array}$
$\begin{array}{r} 2 \\ +2 \\ \hline 4 \end{array}$	$\begin{array}{r} 1 \\ +1 \\ \hline 2 \end{array}$	$\begin{array}{r} 1 \\ +0 \\ \hline 1 \end{array}$	$\begin{array}{r} 1 \\ +0 \\ \hline 1 \end{array}$	$\begin{array}{r} 7 \\ +0 \\ \hline 7 \end{array}$	$\begin{array}{r} 1 \\ +6 \\ \hline 7 \end{array}$	$\begin{array}{r} 1 \\ +6 \\ \hline 7 \end{array}$
$\begin{array}{r} 2 \\ +4 \\ \hline 6 \end{array}$	$\begin{array}{r} 4 \\ +0 \\ \hline 4 \end{array}$	$\begin{array}{r} 6 \\ +1 \\ \hline 7 \end{array}$	$\begin{array}{r} 2 \\ +4 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ +1 \\ \hline 3 \end{array}$	$\begin{array}{r} 1 \\ +5 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ +2 \\ \hline 4 \end{array}$
$\begin{array}{r} 5 \\ +2 \\ \hline 7 \end{array}$	$\begin{array}{r} 2 \\ +3 \\ \hline 5 \end{array}$	$\begin{array}{r} 2 \\ +5 \\ \hline 7 \end{array}$	$\begin{array}{r} 3 \\ +4 \\ \hline 7 \end{array}$	$\begin{array}{r} 0 \\ +0 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ +0 \\ \hline 1 \end{array}$	$\begin{array}{r} 1 \\ +5 \\ \hline 6 \end{array}$
$\begin{array}{r} 4 \\ +2 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ +3 \\ \hline 6 \end{array}$	$\begin{array}{r} 5 \\ +0 \\ \hline 5 \end{array}$	$\begin{array}{r} 3 \\ +3 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ +4 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ +5 \\ \hline 7 \end{array}$	$\begin{array}{r} 5 \\ +2 \\ \hline 7 \end{array}$
$\begin{array}{r} 2 \\ +5 \\ \hline 7 \end{array}$	$\begin{array}{r} 5 \\ +6 \\ \hline 11 \end{array}$	$\begin{array}{r} 6 \\ +4 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ +3 \\ \hline 6 \end{array}$	$\begin{array}{r} 6 \\ +0 \\ \hline 6 \end{array}$	$\begin{array}{r} 6 \\ +2 \\ \hline 8 \end{array}$	$\begin{array}{r} 2 \\ +3 \\ \hline 5 \end{array}$

How am I doing? Accuracy: 0-3 got them all right; 4-5 got 2 or 3 right; 6-7 got 1 or 2 right; 8-9 got none right.

Efficiency: I used these strategies: _____
 Plus Ten Count Up $\pm 1, \pm 2, \pm 3$
 Doubles/Doubles Plus One Tens Partners

Time I finished in: _____ My next goal is: _____

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Mixed Strategies Practice Name _____ My Score _____

Sums 7 to 10 Test 1

Test Your Skills

$\begin{array}{r} 10 \\ +0 \\ \hline 10 \end{array}$	$\begin{array}{r} 8 \\ +2 \\ \hline 10 \end{array}$	$\begin{array}{r} 6 \\ +4 \\ \hline 10 \end{array}$	$\begin{array}{r} 4 \\ +6 \\ \hline 10 \end{array}$	$\begin{array}{r} 9 \\ +0 \\ \hline 9 \end{array}$	$\begin{array}{r} 8 \\ +2 \\ \hline 10 \end{array}$
$\begin{array}{r} 9 \\ +1 \\ \hline 10 \end{array}$	$\begin{array}{r} 7 \\ +3 \\ \hline 10 \end{array}$	$\begin{array}{r} 5 \\ +5 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ +7 \\ \hline 9 \end{array}$	$\begin{array}{r} 1 \\ +9 \\ \hline 10 \end{array}$	$\begin{array}{r} 8 \\ +1 \\ \hline 9 \end{array}$
$\begin{array}{r} 8 \\ +2 \\ \hline 10 \end{array}$	$\begin{array}{r} 4 \\ +5 \\ \hline 9 \end{array}$	$\begin{array}{r} 6 \\ +3 \\ \hline 9 \end{array}$	$\begin{array}{r} 3 \\ +7 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ +8 \\ \hline 10 \end{array}$	$\begin{array}{r} 5 \\ +5 \\ \hline 10 \end{array}$
$\begin{array}{r} 8 \\ +1 \\ \hline 9 \end{array}$	$\begin{array}{r} 5 \\ +3 \\ \hline 8 \end{array}$	$\begin{array}{r} 7 \\ +5 \\ \hline 12 \end{array}$	$\begin{array}{r} 1 \\ +7 \\ \hline 8 \end{array}$	$\begin{array}{r} 6 \\ +1 \\ \hline 7 \end{array}$	$\begin{array}{r} 8 \\ +2 \\ \hline 10 \end{array}$
$\begin{array}{r} 9 \\ +1 \\ \hline 10 \end{array}$	$\begin{array}{r} 4 \\ +4 \\ \hline 8 \end{array}$	$\begin{array}{r} 3 \\ +6 \\ \hline 9 \end{array}$	$\begin{array}{r} 8 \\ +0 \\ \hline 8 \end{array}$	$\begin{array}{r} 4 \\ +4 \\ \hline 8 \end{array}$	$\begin{array}{r} 3 \\ +4 \\ \hline 7 \end{array}$
$\begin{array}{r} 3 \\ +7 \\ \hline 10 \end{array}$	$\begin{array}{r} 4 \\ +5 \\ \hline 9 \end{array}$	$\begin{array}{r} 5 \\ +5 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ +7 \\ \hline 9 \end{array}$	$\begin{array}{r} 5 \\ +4 \\ \hline 9 \end{array}$	$\begin{array}{r} 9 \\ +0 \\ \hline 9 \end{array}$

How am I doing? Accuracy: 0-3 got them all right; 4-5 got 2 or 3 right; 6-7 got 1 or 2 right; 8-9 got none right.

Efficiency: I used these strategies: _____
 Plus Ten Count Up $\pm 1, \pm 2, \pm 3$
 Doubles/Doubles Plus One Tens Partners

Time I finished in: _____ My next goal is: _____

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Mixed Strategies Practice Name _____ My Score _____

Sums 7 to 10 Test 2

Test Your Skills

$\begin{array}{r} 5 \\ +4 \\ \hline 9 \end{array}$	$\begin{array}{r} 1 \\ +9 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ +5 \\ \hline 8 \end{array}$	$\begin{array}{r} 10 \\ +0 \\ \hline 10 \end{array}$	$\begin{array}{r} 6 \\ +3 \\ \hline 9 \end{array}$	$\begin{array}{r} 9 \\ +0 \\ \hline 9 \end{array}$
$\begin{array}{r} 8 \\ +2 \\ \hline 10 \end{array}$	$\begin{array}{r} 4 \\ +5 \\ \hline 9 \end{array}$	$\begin{array}{r} 7 \\ +3 \\ \hline 10 \end{array}$	$\begin{array}{r} 6 \\ +4 \\ \hline 10 \end{array}$	$\begin{array}{r} 5 \\ +5 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ +4 \\ \hline 7 \end{array}$
$\begin{array}{r} 8 \\ +0 \\ \hline 8 \end{array}$	$\begin{array}{r} 7 \\ +2 \\ \hline 9 \end{array}$	$\begin{array}{r} 4 \\ +4 \\ \hline 8 \end{array}$	$\begin{array}{r} 1 \\ +8 \\ \hline 9 \end{array}$	$\begin{array}{r} 8 \\ +1 \\ \hline 9 \end{array}$	$\begin{array}{r} 5 \\ +3 \\ \hline 8 \end{array}$
$\begin{array}{r} 5 \\ +4 \\ \hline 9 \end{array}$	$\begin{array}{r} 2 \\ +7 \\ \hline 9 \end{array}$	$\begin{array}{r} 3 \\ +6 \\ \hline 9 \end{array}$	$\begin{array}{r} 9 \\ +1 \\ \hline 10 \end{array}$	$\begin{array}{r} 8 \\ +0 \\ \hline 8 \end{array}$	$\begin{array}{r} 2 \\ +8 \\ \hline 10 \end{array}$
$\begin{array}{r} 4 \\ +4 \\ \hline 8 \end{array}$	$\begin{array}{r} 2 \\ +6 \\ \hline 8 \end{array}$	$\begin{array}{r} 5 \\ +5 \\ \hline 10 \end{array}$	$\begin{array}{r} 7 \\ +0 \\ \hline 7 \end{array}$	$\begin{array}{r} 4 \\ +3 \\ \hline 7 \end{array}$	$\begin{array}{r} 3 \\ +3 \\ \hline 6 \end{array}$
$\begin{array}{r} 8 \\ +1 \\ \hline 9 \end{array}$	$\begin{array}{r} 3 \\ +6 \\ \hline 9 \end{array}$	$\begin{array}{r} 5 \\ +7 \\ \hline 12 \end{array}$	$\begin{array}{r} 1 \\ +8 \\ \hline 9 \end{array}$	$\begin{array}{r} 2 \\ +5 \\ \hline 7 \end{array}$	$\begin{array}{r} 2 \\ +8 \\ \hline 10 \end{array}$

How am I doing? Accuracy: 0-3 got them all right; 4-5 got 2 or 3 right; 6-7 got 1 or 2 right; 8-9 got none right.

Efficiency: I used these strategies: _____
 Plus Ten Count Up $\pm 1, \pm 2, \pm 3$
 Doubles/Doubles Plus One Tens Partners

Time I finished in: _____ My next goal is: _____

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Mixed Strategies Practice Name _____ My Score _____

Sums 0 to 10 Review

Test Your Skills

$\begin{array}{r} 8 \\ +2 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ +4 \\ \hline 7 \end{array}$	$\begin{array}{r} 5 \\ +5 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ +6 \\ \hline 9 \end{array}$	$\begin{array}{r} 2 \\ +7 \\ \hline 9 \end{array}$	$\begin{array}{r} 1 \\ +8 \\ \hline 9 \end{array}$
$\begin{array}{r} 9 \\ +0 \\ \hline 9 \end{array}$	$\begin{array}{r} 7 \\ +2 \\ \hline 9 \end{array}$	$\begin{array}{r} 5 \\ +3 \\ \hline 8 \end{array}$	$\begin{array}{r} 9 \\ +1 \\ \hline 10 \end{array}$	$\begin{array}{r} 4 \\ +5 \\ \hline 9 \end{array}$	$\begin{array}{r} 6 \\ +3 \\ \hline 9 \end{array}$
$\begin{array}{r} 7 \\ +3 \\ \hline 10 \end{array}$	$\begin{array}{r} 6 \\ +4 \\ \hline 10 \end{array}$	$\begin{array}{r} 8 \\ +2 \\ \hline 10 \end{array}$	$\begin{array}{r} 8 \\ +2 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ +3 \\ \hline 6 \end{array}$	$\begin{array}{r} 5 \\ +5 \\ \hline 10 \end{array}$
$\begin{array}{r} 2 \\ +8 \\ \hline 10 \end{array}$	$\begin{array}{r} 8 \\ +1 \\ \hline 9 \end{array}$	$\begin{array}{r} 6 \\ +3 \\ \hline 9 \end{array}$	$\begin{array}{r} 7 \\ +3 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ +7 \\ \hline 9 \end{array}$	$\begin{array}{r} 4 \\ +6 \\ \hline 10 \end{array}$
$\begin{array}{r} 6 \\ +4 \\ \hline 10 \end{array}$	$\begin{array}{r} 1 \\ +9 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ +7 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ +0 \\ \hline 10 \end{array}$	$\begin{array}{r} 5 \\ +5 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ +8 \\ \hline 10 \end{array}$
$\begin{array}{r} 7 \\ +3 \\ \hline 10 \end{array}$	$\begin{array}{r} 4 \\ +5 \\ \hline 9 \end{array}$	$\begin{array}{r} 9 \\ +1 \\ \hline 10 \end{array}$	$\begin{array}{r} 6 \\ +4 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ +2 \\ \hline 4 \end{array}$	$\begin{array}{r} 6 \\ +5 \\ \hline 11 \end{array}$
$\begin{array}{r} 5 \\ +5 \\ \hline 10 \end{array}$	$\begin{array}{r} 4 \\ +3 \\ \hline 7 \end{array}$	$\begin{array}{r} 5 \\ +5 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ +7 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ +7 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ +8 \\ \hline 10 \end{array}$

How am I doing? Accuracy: 0-3 got them all right; 4-5 got 2 or 3 right; 6-7 got 1 or 2 right; 8-9 got none right.

Efficiency: I used these strategies: _____
 Plus Ten Count Up $\pm 1, \pm 2, \pm 3$
 Doubles/Doubles Plus One Tens Partners

Time I finished in: _____ My next goal is: _____

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Minuends 0 to 7 Test 2

Name: _____ My Score: _____

Test Your Skills

1	3	4	5	3	5
-8	-1	-2	-9	-3	-0
6	6	7	7	5	1
-3	-5	-3	-8	-3	-1
3	4	5	6	7	7
-3	-1	-2	-1	-7	-6
0	3	3	5	0	1
2	3	4	6	5	6
-1	-2	-3	-6	-4	-2
1	1	1	0	1	4
6	7	7	7	2	2
-4	-2	-4	-6	-2	-0
2	5	3	1	0	2
4	4	6	5	7	6
-0	-4	-0	-2	-5	-5
4	0	6	3	2	1

Accuracy: I got them all right!
 I missed a couple.
 I need practice these (circle 10 items)

Efficiency: I used these strategies:
 Count Back -1, -2, -3
 Count Up from the number
 Double Subtraction
 Ten Frames Subtraction
 Other _____

Time: I finished in _____ minutes.
 My next goal is _____.

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Minuends 7 to 10 Test 1

Name: _____ My Score: _____

Test Your Skills

7	9	7	9	8	9
-2	-7	-6	-6	-2	-7
8	7	9	8	9	10
-6	-4	-4	-0	-8	-1
2	3	5	8	1	9
10	7	10	7	8	8
-2	-3	-6	-7	-8	-8
8	4	4	0	5	0
9	10	7	10	8	10
-3	-4	-2	-8	-1	-10
6	6	5	2	7	0
8	10	9	10	9	10
-5	-5	-3	-9	-9	-0
3	5	6	1	0	10
10	8	10	9	9	8
-3	-7	-7	-5	-1	-4
7	3	4	8	4	4

Accuracy: I got them all right!
 I missed a couple.
 I need practice these (circle 10 items)

Efficiency: I used these strategies:
 Count Back -1, -2, -3
 Count Up from the number
 Double Subtraction
 Ten Frames Subtraction
 Other _____

Time: I finished in _____ minutes.
 My next goal is _____.

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Minuends 7 to 10 Test 2

Name: _____ My Score: _____

Test Your Skills

9	10	8	9	10	9
-9	-0	-5	-6	-4	-7
6	10	3	4	6	2
10	8	7	10	8	10
-6	-8	-2	-8	-8	-10
4	0	5	2	1	0
10	9	10	9	10	9
-7	-9	-3	-6	-5	-1
3	0	7	3	5	8
9	10	8	10	9	9
-4	-1	-6	-9	-2	-8
5	9	2	1	7	1
7	8	10	8	4	8
-6	-4	-2	-0	-7	-2
1	4	8	8	3	6
7	6	9	7	7	8
-5	-3	-7	-7	-3	-1
2	5	2	0	4	7

Accuracy: I got them all right!
 I missed a couple.
 I need practice these (circle 10 items)

Efficiency: I used these strategies:
 Count Back -1, -2, -3
 Count Up from the number
 Double Subtraction
 Ten Frames Subtraction
 Other _____

Time: I finished in _____ minutes.
 My next goal is _____.

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Minuends 0 to 10 Review

Name: _____ My Score: _____

Test Your Skills

5	7	9	10	8	7
-2	-3	-4	-5	-6	-7
3	4	5	5	2	0
6	9	8	6	8	7
-5	-2	-3	-4	-8	-4
1	7	5	4	3	3
8	10	8	7	10	8
-7	-3	-4	-5	-6	-2
1	7	4	2	4	6
10	9	10	9	10	5
-1	-3	-4	-6	-8	-1
9	6	6	3	2	4
10	8	6	10	5	10
-10	-0	-3	-7	-3	-9
0	8	3	3	2	1
4	6	7	9	9	5
-2	-4	-2	-1	-5	-4
2	2	5	8	4	1

Accuracy: I got them all right!
 I missed a couple.
 I need practice these (circle 10 items)

Efficiency: I used these strategies:
 Count Back -1, -2, -3
 Count Up from the number
 Double Subtraction
 Ten Frames Subtraction
 Other _____

Time: I finished in _____ minutes.
 My next goal is _____.

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Minuends 10 to 12 Test 1

Name: _____ My Score: _____

Test Your Skills

10	11	12	10	11	10
-0	-8	-4	-6	-7	-9
10	3	8	4	4	1
11	10	11	10	12	11
-5	-5	-6	-2	-3	-10
9	5	5	8	9	1
11	10	11	11	12	11
-5	-7	-9	-1	-1	-4
6	3	3	10	11	7
12	10	11	12	10	10
-9	-1	-9	-7	-8	-10
9	9	2	5	2	0
10	12	12	10	12	11
-4	-4	-5	-3	-2	-8
6	8	7	7	10	3
12	12	10	12	11	12
-6	-8	-10	-0	-4	-7
6	4	0	12	7	5

Accuracy: I got them all right!
 I missed a couple.
 I need practice these (circle 10 items)

Efficiency: I used these strategies:
 Count Back/Count Up
 Double Addition
 Other _____

Time: I finished in _____ minutes.
 My next goal is _____.

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Minuends 10 to 12 Test 2

Name: _____ My Score: _____

Test Your Skills

12	11	10	12	11	12
-7	-1	-7	-5	-9	-1
5	10	3	7	2	11
11	10	12	11	10	12
-5	-10	-4	-3	-3	-2
6	0	8	8	7	10
10	12	11	12	11	10
-1	-9	-2	-3	-7	-8
9	3	9	9	4	2
4	11	10	11	10	11
-4	-8	-9	-5	-6	-10
7	3	1	6	4	1
12	12	10	12	12	11
-8	-6	-2	-6	-7	-4
4	12	8	6	5	7
11	10	12	11	10	11
-8	-6	-4	-9	-4	-10
3	4	8	2	6	1

Accuracy: I got them all right!
 I missed a couple.
 I need practice these (circle 10 items)

Efficiency: I used these strategies:
 Count Back/Count Up
 Double Addition
 Other _____

Time: I finished in _____ minutes.
 My next goal is _____.

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Minuends 13 to 15 Test 1

Name: _____ My Score: _____

Test Your Skills

14	14	15	14	13	14
-8	-4	-8	-6	-10	-5
6	10	7	8	3	9
13	14	15	13	15	15
-2	-9	-4	-6	-10	-1
11	5	11	7	5	14
14	13	14	13	15	14
-2	-0	-1	-7	-2	-6
12	13	13	6	13	8
14	13	15	13	14	13
-10	-5	-0	-9	-9	-4
4	8	15	4	5	9
13	14	15	14	15	14
-3	-8	-5	-7	-9	-3
10	6	10	7	6	11
13	15	13	15	13	15
-7	-3	-0	-8	-1	-6
6	12	13	7	12	9

Accuracy: I got them all right!
 I missed a couple.
 I need practice these (circle 10 items)

Efficiency: I used these strategies:
 Count Back/Count Up
 Double Addition
 Other _____

Time: I finished in _____ minutes.
 My next goal is _____.

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Minuends 13 to 15 Test 2

Name: _____ My Score: _____

Test Your Skills

15	15	14	14	13	15
-4	-8	-9	-7	-7	-6
11	7	5	7	6	9
15	14	13	13	14	13
-1	-4	-5	-3	-6	-9
14	10	8	10	8	4
13	14	13	13	14	13
-6	-0	-4	-1	-5	-8
7	14	9	12	9	5
15	15	14	14	14	15
-5	-9	-2	-8	-3	-7
10	6	12	6	11	8
15	13	13	13	15	15
-3	-6	-0	-8	-6	-15
12	7	13	5	9	0
14	15	14	13	14	15
-1	-0	-8	-2	-9	-2
13	15	6	11	5	13

Accuracy: I got them all right!
 I missed a couple.
 I need practice these (circle 10 items)

Efficiency: I used these strategies:
 Count Back/Count Up
 Double Addition
 Other _____

Time: I finished in _____ minutes.
 My next goal is _____.

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Minuends 0 to 15 Review

Name: _____ My Score: _____

Test Your Skills

13	14	13	14	10	14
-10	-6	-8	-4	-9	-5
3	8	5	10	1	9
15	10	13	12	15	11
-8	-3	-9	-6	-7	-8
7	7	4	6	8	7
8	7	15	9	8	3
-3	-5	-2	-7	-5	-3
5	2	13	2	3	4
13	12	13	11	12	15
-4	-3	-5	-2	-7	-6
9	9	8	9	5	9
14	15	9	10	14	15
-9	-5	-8	-7	-8	-10
5	10	1	3	6	5
10	9	15	14	10	9
-4	-6	-4	-2	-8	-5
6	3	11	12	2	4

Accuracy: I got them all right!
 I missed a couple.
 I need practice these (circle 10 items)

Efficiency: I used these strategies:
 Count Back/Count Up
 Double Addition
 Other _____

Time: I finished in _____ minutes.
 My next goal is _____.

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