

Name _____

Practicing Addition and Subtraction Facts

Review What You Know

1. Solve. Use cubes if you like.

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

$$\begin{array}{r} 18 \\ - 9 \\ \hline \end{array} \qquad \begin{array}{r} 14 \\ - 7 \\ \hline \end{array}$$

Complete the fact family.

2. $13 = 6 + 7$
 $13 = 7 + 6$
 $7 = 13 - 6$

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

3. $11 = 3 + 8$
 $8 = 11 - 3$
 $3 = 11 - 8$

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



Home-School Connection

Dear Family,

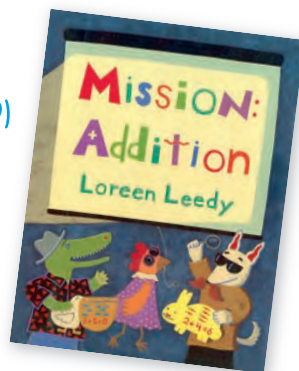
Today my class started Topic 16, **Practicing Addition and Subtraction Facts**. I will practice the different ways I have learned to add and subtract. Here are some things we can do to help me with my math.

Love,

Book to Read

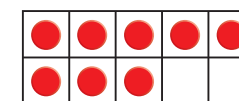
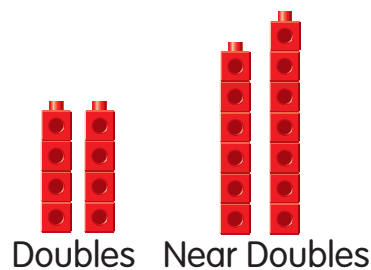
Reading math stories reinforces concepts. Look for this title in your local library:

Mission: Addition
by Loreen Leedy
(Holiday House, 1999)



Home Activity

Make a chart with 3 columns: Doubles, Near Doubles, and Make Ten. Ask your child to write an addition fact in each column. Then have him or her write a related subtraction fact below each addition fact.







Make 10



FACT * FAMILY RACE

What You Need

- 2 game markers 
- 1 number cube 
- 2 pencils 
- 2 sheets of paper 

START!

Number of players: 2

How to Play

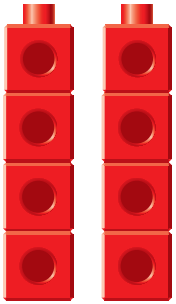
1. Place markers on START. Take turns. Toss the number cube.
2. Move that many spaces.
3. If you land on a boat, write the fact family. Have your partner check your fact family. If you land on a space with words, follow the directions.
4. Play until both players reach FINISH.



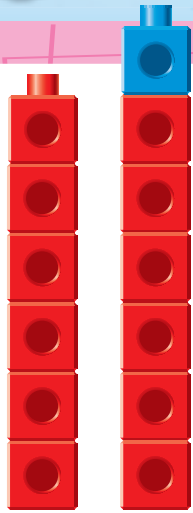
FINISH!

Name _____

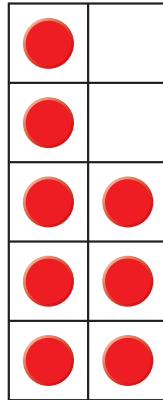
Practicing Addition Facts



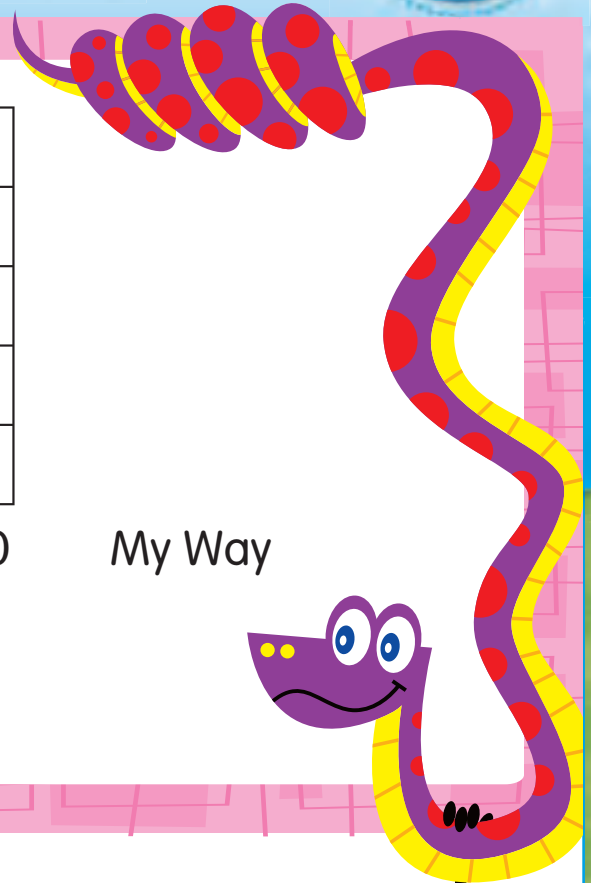
Doubles



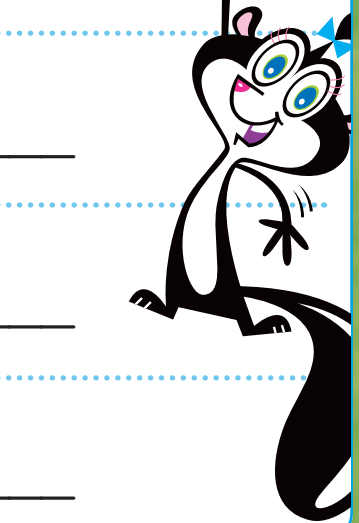
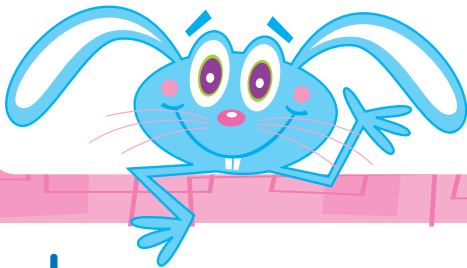
Near Doubles



Make 10



My Way



1.

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

2.

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

3.

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


4.

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



Home Connection Your child wrote addition facts for each of the strategies pictured at the top of the page.

Home Activity Ask your child to answer basic addition problems with sums up to 20 (examples: $7 + 9$, $10 + 10$, $5 + 6$). Encourage your child to memorize the following doubles if he or she does not yet know them ($2 + 2$, $3 + 3$, $4 + 4$, $5 + 5$, $6 + 6$, $7 + 7$, $8 + 8$, $9 + 9$, and $10 + 10$).

MR 1.1 Determine the approach, materials, and strategies to be used. Also **NS 2.1** , **MR 2.1**.

You can use different ways to remember addition facts.

Doubles Near Doubles

Make 10

Both numbers are the same. These are doubles.

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

Doubles

9 + 9

The numbers are one apart. These are near doubles.

$$6 + 7$$

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

Near Doubles

One number is close to 10. You can make 10.

$$5 + 8$$

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

Make 10

Guided Practice

Find each sum. Circle the strategy that you used.

1.

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

(Doubles)
Near Doubles
Make 10
My Way

2.

$$\begin{array}{r} 9 \\ + 7 \\ \hline \end{array}$$

Doubles
Near Doubles
Make 10
My Way

3.

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

Doubles
Near Doubles
Make 10
My Way

4.

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

Doubles
Near Doubles
Make 10
My Way

Do you understand? What strategy could you use to add $7 + 8$? Why is it a good strategy?

Independent Practice

Find each sum.

5.

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

6.

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

7.

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

8.

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

9.

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

10.

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

11.

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

12.

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

13.

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

14.

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

Algebra Find the missing numbers.

15.

$$7 + \square = 14$$

16.

$$9 + \square = 14$$

Problem Solving

Solve the problems below.

17. Brett has 8 shirts in his dresser. He has 8 more shirts in his closet. How many shirts does he have in all? Write an addition sentence. Circle the strategy that you used to find the sum.

Doubles
Near Doubles
Make 10
My Way

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

18. Selena has 7 big books. She has 8 small books. What strategy would not help you find how many books she has in all?

Doubles

Near Doubles

Make 10

My Way

19.  **Journal** Circle all the strategies you could use to add $9 + 9$. Then draw a picture to show how you found the sum.

Doubles
Near Doubles
Make 10
My Way

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

Name _____

Fact Families



1.

____ = ____ + ____
____ = ____ + ____
____ = ____ - ____
____ = ____ - ____

2.

____ = ____ + ____
____ = ____ + ____
____ = ____ - ____
____ = ____ - ____

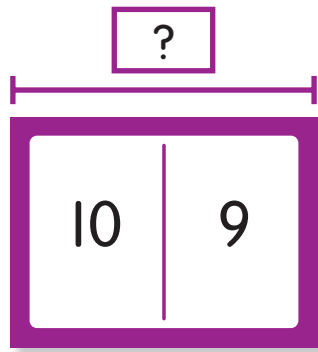


Home Connection Your child identified related addition and subtraction facts.

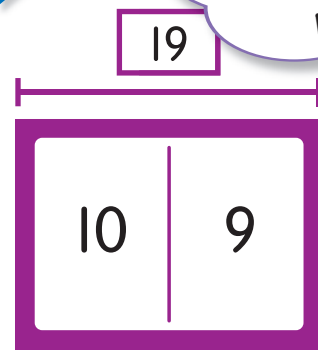
Home Activity Ask your child to write an addition or subtraction fact. Then work with him or her to write the entire fact family (such as $6 + 8 = 14$, $8 + 6 = 14$, $14 - 6 = 8$, and $14 - 8 = 6$).

NS 2.1 Know the addition facts (sums to 20) and the corresponding subtraction facts and commit them to memory. Also **NS 2.2**.

What is $10 + 9$?



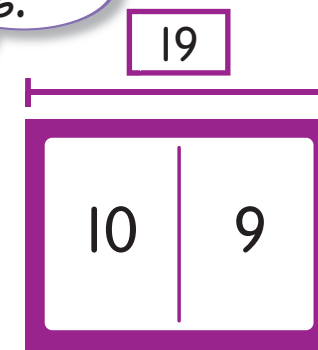
I know that 10 and 9 are parts of 19. 19 is the whole.



$$19 = 10 + 9$$



If I know one fact, I know all the related facts.



These facts make a fact family.

$$19 = 10 + 9$$

$$19 = 9 + 10$$

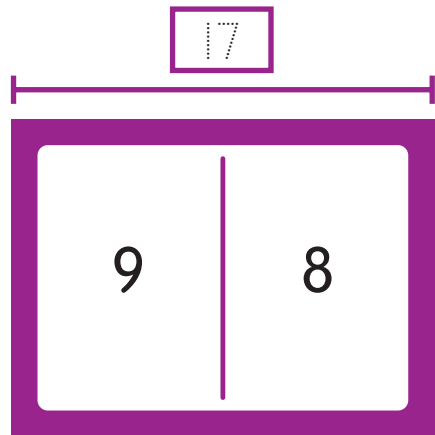
$$10 = 19 - 9$$

$$9 = 19 - 10$$

Guided Practice

Complete the fact family.

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

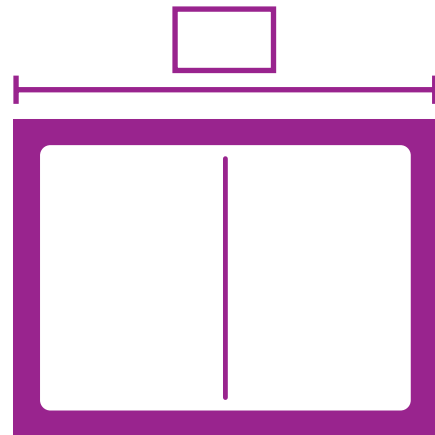


$$\underline{17} = \underline{8} + \underline{9}$$

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

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

2. $\underline{\quad} = 16 - 6$



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

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

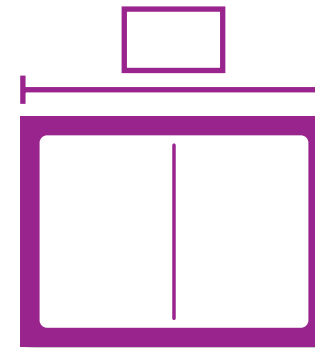
$$\underline{\quad} = \underline{\quad} - \underline{\quad}$$

Do you understand? Which facts are in the fact family with the numbers 14, 8, and 6?

Independent Practice

Complete the fact family.

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

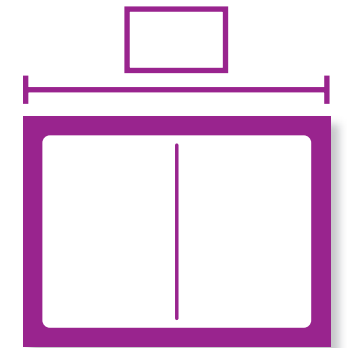


$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

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

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

4. $\underline{\quad} = 16 - 7$



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

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

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

Number Sense Circle True or False.

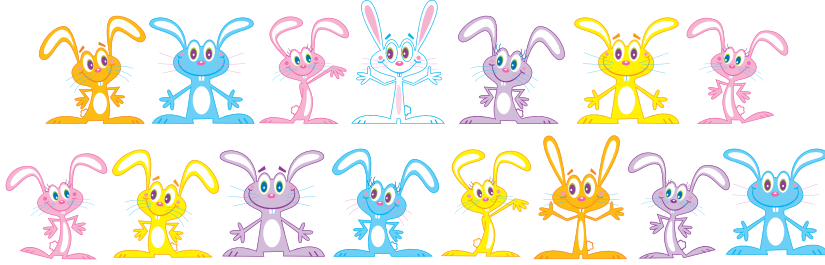
5. Brook wrote $12 = 7 + 5$.
Stephanie wrote $12 = 5 + 7$.
The facts are related.

True or False

Problem Solving

Solve the problems below.

6. Write a fact family for the picture.



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

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

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

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

7. Which numbers make up this fact family?

$$17 = 9 + 8$$

$$17 = 8 + 9$$

$$9 = 17 - 8$$

$$8 = 17 - 9$$

7, 17, 10



8, 18, 9



9, 18, 9



8, 17, 9



8.  **Journal** Choose 3 numbers.

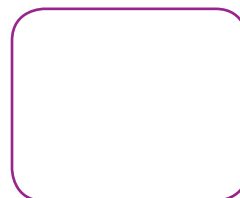
Write a fact family using the numbers.

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

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

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

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



Using Addition Facts to Subtract



1.

□
□
—
□

□
□
+
□

2.

□
□
—
□

□
□
+
□

3.

□
□
—
□

□
□
+
□

4.

□
□
—
□

□
□
+
□



Home Connection Your child thought of an addition fact that could help him or her subtract.

Home Activity Write $17 - 9$ on a sheet of paper. Ask your child to write a related addition fact and then solve the subtraction problem. Write other subtraction problems for your child to solve.

NS 2.2 Use the inverse relationship between addition and subtraction to solve problems.

Also **NS 2.1**.

In lesson 16-1, you practiced addition facts. Now you can use them to help you subtract. Find $17 - 8$.

Think of a related addition fact.

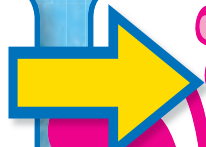


Use addition to subtract.

$$8 + \square = 17$$



8 plus what number is 17?



I know that 8 plus 9 is 17. 9 is the missing part.

$$8 + \boxed{9} = 17$$



$$8 + 9 = 17, \text{ so } 17 - 8 = 9.$$



The addition fact helps me subtract.

Guided Practice

Draw a line to the addition fact that helps you subtract.

- | | |
|----------------------------------|----------------|
| 1. $19 - 9 = \underline{10}$ | $10 + 10 = 20$ |
| 2. $16 - 7 = \underline{\quad}$ | $9 + 10 = 19$ |
| 3. $20 - 10 = \underline{\quad}$ | $7 + 9 = 16$ |
| 4. $18 - 9 = \underline{\quad}$ | $8 + 8 = 16$ |
| 5. $16 - 8 = \underline{\quad}$ | $9 + 9 = 18$ |

Do you understand? What subtraction problem would $6 + 6 = 12$ help answer?

Independent Practice

Complete the addition fact. Use the addition fact to help you subtract.

- | | | |
|---|---|---|
| 6. $\begin{array}{r} 7 \\ + \square \\ \hline 14 \end{array}$ | 7. $\begin{array}{r} 6 \\ + \square \\ \hline 13 \end{array}$ | 8. $\begin{array}{r} 9 \\ + \square \\ \hline 17 \end{array}$ |
| $\begin{array}{r} 14 \\ - 7 \\ \hline \square \end{array}$ | $\begin{array}{r} 13 \\ - 6 \\ \hline \square \end{array}$ | $\begin{array}{r} 17 \\ - 9 \\ \hline \square \end{array}$ |
| 9. $8 + \square = 15$ | 10. $9 + \square = 19$ | 11. $10 + \square = 20$ |
| $15 - 8 = \square$ | $19 - 9 = \square$ | $20 - 10 = \square$ |

Algebra Find the missing numbers.

12. $12 - \underline{\quad} = 7$ 13. $11 - \underline{\quad} = 8$

Problem Solving

Solve the problems below.

14. Leah finds 14 shells on the beach. She gives some shells to her sister. Now Leah has 6 shells. How many did she give to her sister? Write an addition fact. Use it to solve the subtraction problem.



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

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

 shells

15. Which addition fact helps you solve $19 - 10$?

$9 + 9 = 18$



$10 + 8 = 18$




$10 + 9 = 19$



$10 + 10 = 20$



16.  **Journal** Think of a subtraction fact. Use it to complete the sentence.


 - = because + = .

Name _____

Problem Solving

Use Objects

$$10 + 4 = 14$$

- 
- Sara picks 10 flowers.
Then she picks 4 more. How many flowers does Sara pick in all?
-

1. $6 + 8 = \underline{\quad}$

2. $8 + 6 = \underline{\quad}$


3. $14 - \underline{\quad} = 8$

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



Home Connection Your child made up stories to go with the fact family $6 + 8 = 14$, $8 + 6 = 14$, $14 - 6 = 8$, and $14 - 8 = 6$.

Home Activity Have your child draw a picture and tell an addition story about the picture. Listen to the story and write the addition sentence.

AF 1.3 Create problem situations that might lead to given number sentences involving addition and subtraction. Also **MR 1.2, NS 2.1** .



Read and Understand

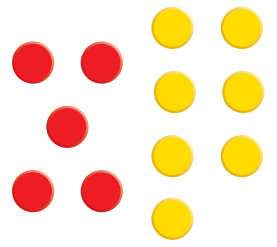
Create a story for the number sentence below.

$$5 + 7 = 12$$

The + tells me to write an addition story.

Plan

I can use objects to model the addition. Then, I will write a story.



My story will be about adding bugs.

Solve

- Lee sees 5 bugs.
- Then 7 more bugs fly into her garden.
- How many bugs does she see in all?
- 12 bugs in all.

I created a story about joining objects.

Look Back and Check

I will ask a friend to write a number sentence for my story.

$$5 + 7 = 12$$

Guided Practice

Use counters to model each number sentence. Then fill in the blanks.

1. $18 - 9 = 9$

Carlos buys 18 dog treats. His dog eats 9.
How many treats are left? 9

2. $7 + 8 = 15$

Rosi has _____ paintings. She paints _____ more.
How many paintings does she have in all? _____

3. $11 - 3 = 8$

Pete has _____ stickers. He gives _____ away.
How many stickers does he keep? _____

Do you understand? Look at Exercise 2. How would you act out this story problem?

Independent Practice

Use counters to model each number sentence. Then write a story or draw a picture.

4. $8 - 4 = 4$

5. $12 - 4 = 8$

6. $6 + 7 = 13$

Problem Solving

Solve the problems below. Use counters to help.

7. Ann buys _____ apples.
Her family eats _____ apples.
How many apples does Ann have left?
Write 2 numbers to complete the story problem.
Write the number sentence. Then solve.

_____ ○ _____ = _____ _____ apples.

8. Marco baked 16 muffins.
His friends ate 9 muffins.
There were 7 left over.
Which number sentence
matches the story?



$7 + 9 = 16$



$9 + 7 = 16$



$16 - 9 = 7$



$17 - 6 = 11$



9.  **Journal** Draw a picture to show $5 + 5 = 10$.

1 $9 + 6 = \underline{\quad}$

- 13 14 15 16

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

- 14 15 19 21

3
$$\begin{array}{r} 8 \\ + 5 \\ \hline \end{array}$$

- 9
 11
 13
 17

4 $14 = 6 + 8$

$14 = 8 + 6$

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

$8 = 14 - 6$

- $6 = 14 - 8$ $8 = 6 - 14$ $14 = 8 - 6$ $15 = 9 + 6$

Name _____

5

- $9 + 5 = 14$ $5 + 9 = 14$ $14 + 9 = 5$ $14 - 9 = 5$

6

- $8 + 8 = 16$ $8 - 8 = 16$ $18 - 10 = 8$ $16 - 8 = 8$

7 $17 - 9 = \underline{\quad}$

- $9 + 7 = 16$ $9 + 8 = 17$ $9 + 9 = 18$ $9 + 10 = 19$

8 $13 - 6 = \underline{\quad}$

- $4 + 9 = 13$ $5 + 8 = 13$ $6 + 7 = 13$ $8 + 5 = 13$

Oral Directions Say: Mark the correct answer. **5.** Ricky grew 14 melons. He gave 9 to his friends. There were 5 left over. Which number sentence matches the story? **6.** Jill made 8 sandcastles. Then she made 8 more. There were 16 in all. Which number sentence matches the story? **7-8.** Which addition fact helps you solve the subtraction fact?

Set A

You can use a strategy to help you solve. Draw a line to the strategy you use.

$8 + 9 = \underline{17}$	Doubles
$7 + 7 = \underline{14}$	Near Doubles
$9 + 3 = \underline{12}$	Make Ten
	My Way

Solve. Draw a line to the strategy you use.

- | | | |
|---|-----------------------------|--------------|
| 1 | $6 + 7 = \underline{\quad}$ | Doubles |
| 2 | $8 + 4 = \underline{\quad}$ | Near Doubles |
| 3 | $9 + 9 = \underline{\quad}$ | Make Ten |
| | | My Way |

Set B

If you know one fact, you can complete the fact family.

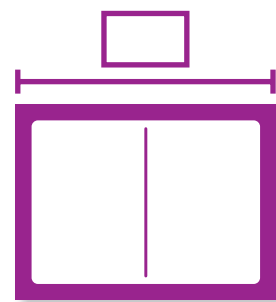
$\underline{13} = 8 + 5$

$\underline{13} = \underline{5} + \underline{8}$

$\underline{8} = \underline{13} - \underline{5}$

$\underline{5} = \underline{13} - \underline{8}$

4 $\underline{\quad} = 15 - 7$



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

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

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

Set C

Think of an addition fact to help you subtract.



If you know $8 + 5 = 13$, you can solve $13 - 8 = 5$.

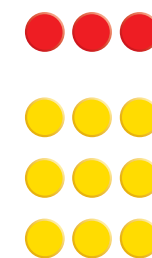
$\begin{array}{r} 8 \\ + 5 \\ \hline 13 \end{array}$	$\begin{array}{r} 13 \\ - 8 \\ \hline 5 \end{array}$
--	--

Complete the addition fact. Use the addition fact to help you subtract.

5	$\begin{array}{r} 4 \\ + \square \\ \hline 13 \end{array}$	$\begin{array}{r} 13 \\ - 4 \\ \hline \square \end{array}$
6	$\begin{array}{r} 8 \\ + \square \\ \hline 14 \end{array}$	$\begin{array}{r} 14 \\ - 8 \\ \hline \square \end{array}$

Set D

You can use objects to model a fact. Then write a story for the fact.



$3 + 9 = \underline{12}$

Ed has 3 stamps.

He buys 9 more.
How many stamps does he have in all?

7 Write a story for the number sentence. Use counters if you wish.

$7 + 8 = 15$
