Name _____

Topic 14

Addition Facts to 20

Review What You Know

1. Find each sum.
Use cubes if you like.

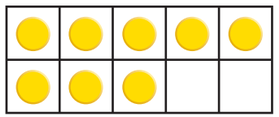
4	5	3	6
+ 4	+ 6	+ 2	+ 6

Write an addition sentence to answer the question.

2. Serena has 4 books.
She got 5 more at the library.
How many books does Serena have now?

____ + ____ = ____ books

3. How many more counters do you need to make 10?
Write the number.



10 is 8 and _____.

Home-School Connection

Dear Family,

Today my class started Topic 14, **Addition Facts to 20.** I will learn different ways to solve addition facts with sums up to 20. Here are some of the new math words I will be learning and 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:

Two of Everything: A Chinese Folktale by Lily Toy Hong
(Albert Whitman, 1993)

Home Activity

Write the numbers 1 through 12 on small pieces of paper. Put them in a bag. Have your child pull out a number and tell you whether they can make a doubles fact that would have that number as a sum.

My New Math Words

Doubles plus 1
a double plus 1 more with addends that are 1 apart

5 + 6 = ?
5 + 5 = 10

6 is 1 more than 5. So, 5 + 6 is 1 more than 5 + 5.

5 + 6 = 11

Doubles plus 2
a double plus 2 more with addends that are 2 apart

8 + 6 = ?
6 + 6 = 12

8 is 2 more than 6. So, 8 + 6 is 2 more than 6 + 6.

8 + 6 = 14

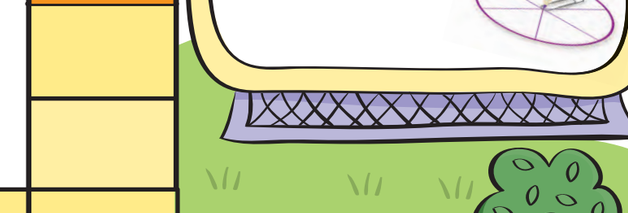
Number of players: 2

How to Play

1. Put your game marker on Home. Take turns.
2. Spin the spinner. Write the number two times. Add the numbers together. Use connecting cubes to help you.
3. Move that number of spaces. If you land on an orange space, follow the directions.
4. Keep playing until you both return to Home.

What You Need

2 game markers
1 paper clip
1 pencil
12 connecting cubes



Use the crosswalk. Spin again.

Step in a puddle. Go back 2.

Lose a hat. Go back 3.

Visit a park. Go ahead 4.

A taxi honks. Go ahead 2.

See a friend. Go ahead 4.

Rest on a bench. Lose a turn.

Wave to a bus. Spin again.

Look in a store. Go ahead 2.

Recycle a can. Go ahead 3.

HOME

DOUBLE STREET

STOP

GAMES

SHOES

Name _____

Interactive Learning

Lesson 14-1

Doubles to 20

1. ____ is double ____

so ____ = ____ + ____

2. ____ is double ____

so ____ = ____ + ____

3. ____ is double ____

so ____ = ____ + ____

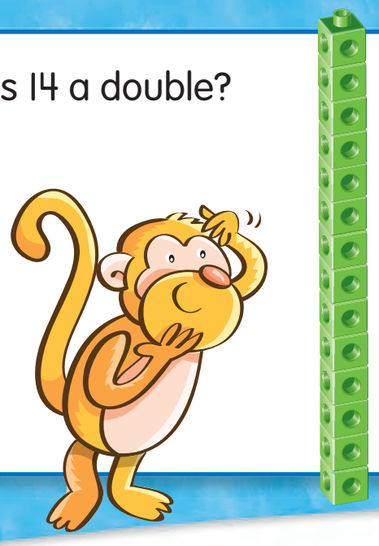
4. ____ is double ____

so ____ = ____ + ____

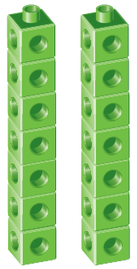
Home Connection Your child used doubles facts to add to 20.
Home Activity Draw 9 identical shapes on a piece of paper. Ask your child to draw the same number of shapes and tell you a doubles fact about them.

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

Is 14 a double?



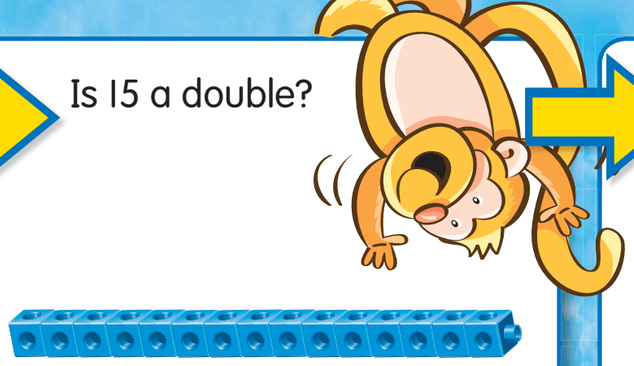
14 = 7 + 7



Both addends are the same.

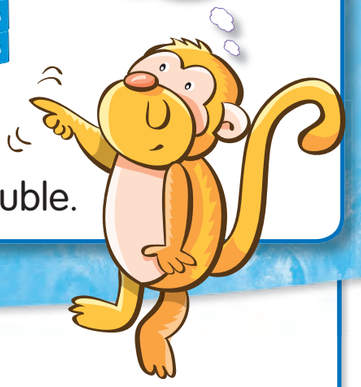
14 is double 7.

Is 15 a double?



15 = 7 + 8

The parts are not the same.

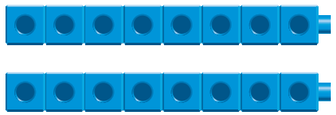


15 is not a double.

Guided Practice

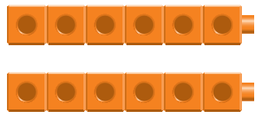
Write an addition fact for each double.

1.



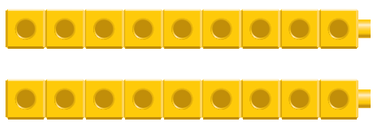
16 = 8 + 8

2.



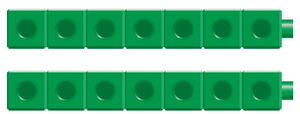
___ = ___ + ___

3.



___ = ___ + ___

4.



___ = ___ + ___

Do you understand? Can 17 be shown with a doubles fact? Explain.

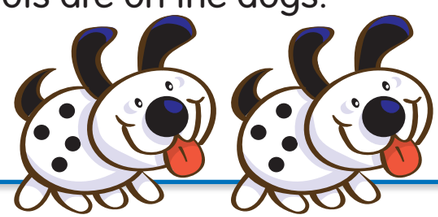
Independent Practice

Add to solve. Then circle the doubles.

5. 5 + 5	6. 7 + 3	7. 0 + 6	8. 8 + 8	9. 3 + 8
10. 5 + 7	11. 9 + 0	12. 1 + 1	13. 4 + 4	14. 9 + 9
15. 6 + 6	16. 2 + 9	17. 6 + 3	18. 10 + 10	19. 1 + 8

Number Sense Write an addition sentence that tells how many spots are on the dogs.

20.



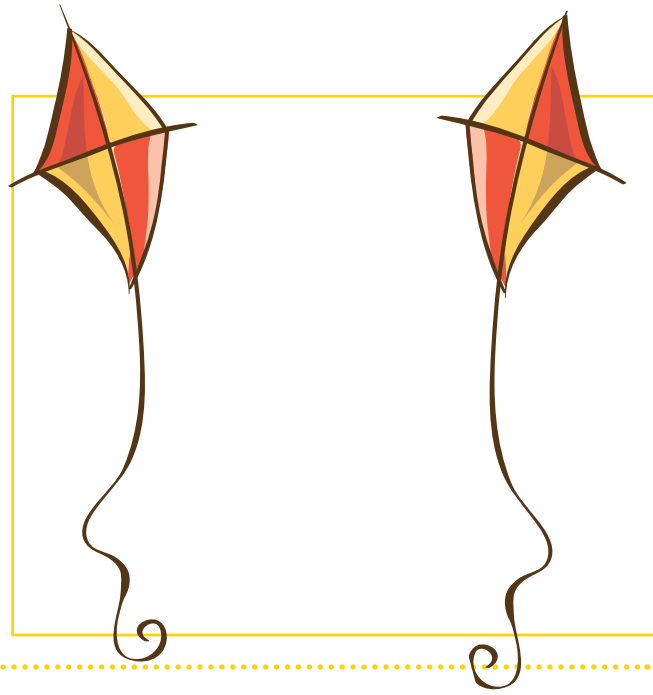
___ + ___ = ___

Problem Solving

Solve the problems below.

21. Meg has 2 kites and 12 ribbons. She puts the same number of ribbons on each kite string. Draw a picture to solve. Write the doubles fact about the ribbons.

____ + ____ = 12



22. Which doubles fact does this picture show?

6 + 6 = 12 ○

7 + 9 = 16 ○

5 + 13 = 18 ○

9 + 9 = 18 ○

23. **Journal** Kate and Raphael caught the same number of butterflies. They caught 14 butterflies in all. Draw their butterflies. Write the doubles fact.

____ + ____ = 14

DIGITAL eTools www.pearsonsuccessnet.com

FOLD

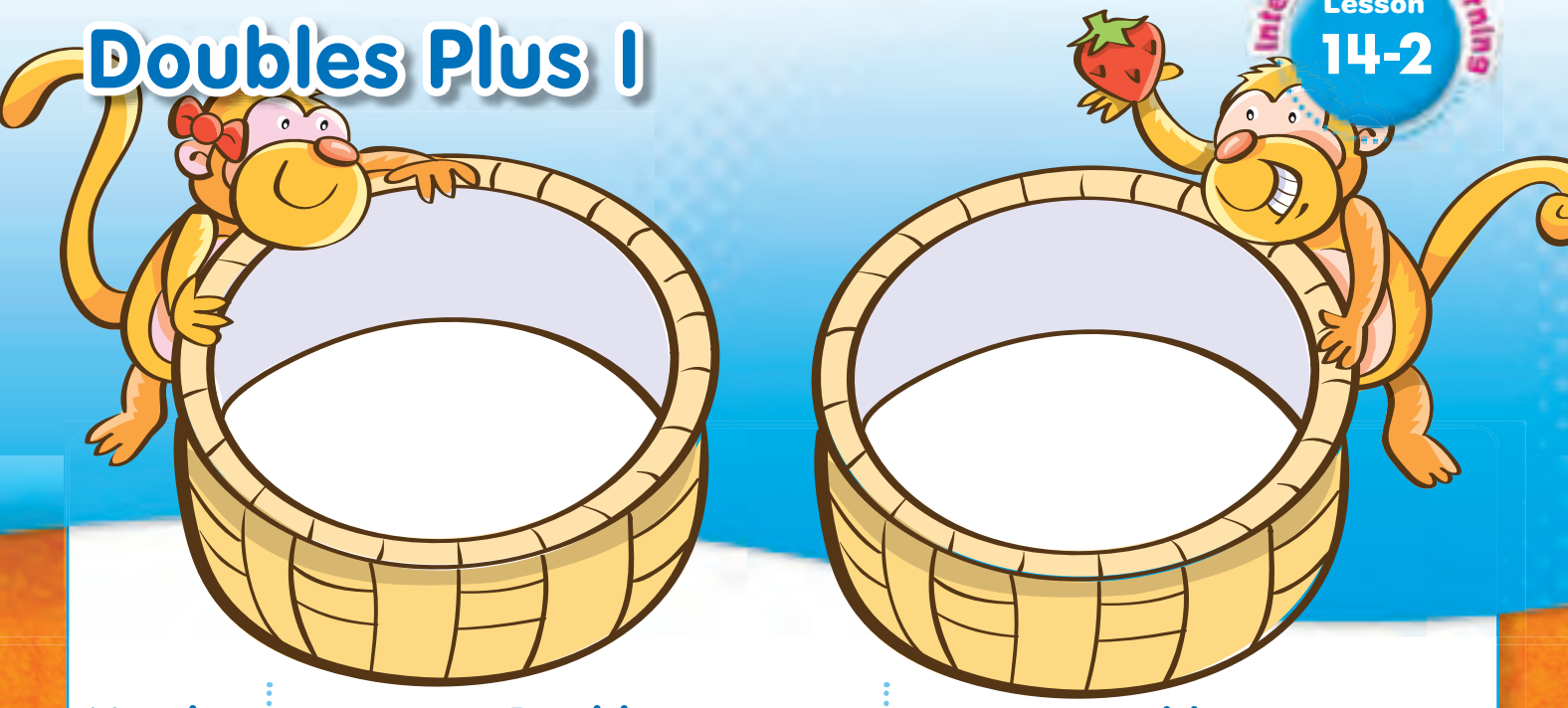
FOLD

Name _____

Interactive Learning

Lesson 14-2

Doubles Plus 1



Number	Double	Double + 1
5	____ + ____ = ____	____ + ____ = ____
6	____ + ____ = ____	____ + ____ = ____
7	____ + ____ = ____	____ + ____ = ____
8	____ + ____ = ____	____ + ____ = ____

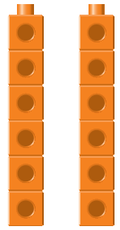
Home Connection Your child used a doubles fact to help solve a doubles plus one fact, such as 7 + 8 = 15.
Home Activity Write a number from 1 though 8 on a sheet of paper. Ask your child to say a doubles fact and a doubles plus one fact to go with that number.

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

You can use doubles to find **doubles plus 1** facts.

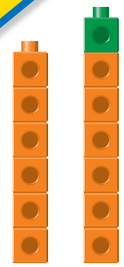
$$\begin{array}{r} 6 \\ +\ 7 \\ \hline ? \end{array}$$

Double the 6.

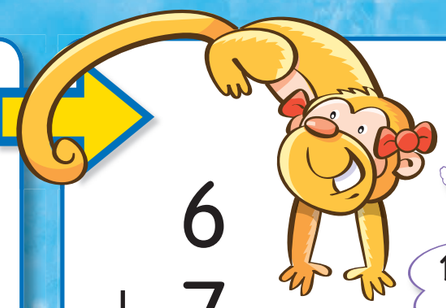


$$\begin{array}{r} 6 \\ +\ 6 \\ \hline 12 \end{array}$$

6 + 7 is 6 + 6 and 1 more.



$$\begin{array}{r} 6 \\ +\ 6 \\ \hline 12 \end{array}$$ and 1 more



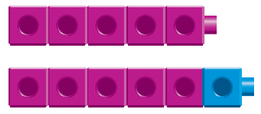
$$\begin{array}{r} 6 \\ +\ 7 \\ \hline 13 \end{array}$$

12 and 1 more is 13.

Guided Practice

Add the doubles.
Then use the doubles to help you solve the problems.

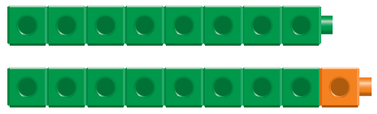
1.



5 + 5 = 10

so 5 + 6 = 11

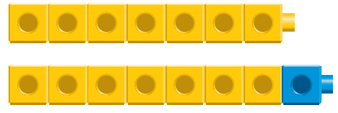
2.



___ + ___ = ___

so 8 + 9 = ___

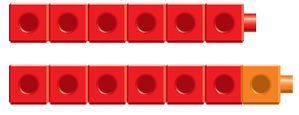
3.



___ + ___ = ___

so 7 + 8 = ___

4.



___ + ___ = ___

so 6 + 7 = ___

Do you understand? How does knowing 7 + 7 help you find 7 + 8 ?

Word Bank
doubles plus 1

Independent Practice

Solve the problems below.

5.

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

6.

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

7.

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

8.

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

Reasonableness Circle the double you would use to solve 7 + 8.

9.

7 + 7 and 1 more

8 + 8 and 1 more

Problem Solving

Solve the problems below.

10. Carrie and Pete each picked 7 cherries. Then Pete picked 1 more. How many cherries do they have in all? Write an addition sentence to solve.

_____ + _____ = _____

_____ cherries

11. Tomaz ate 9 grapes. Then he ate 8 grapes. How many grapes did Tomaz eat in all?

18	17	15	1
○	○	○	○

12. **Journal**

Laura had to solve 9 + 8. She used 9 + 9 and 1 more. Did Laura get the correct answer? Explain.

_____

_____

_____

DIGITAL Animated Glossary www.pearsonsuccessnet.com

Name _____

Doubles Plus 2

Interactive Learning
Lesson 14-3

Number	Double	Double + 2
5	____ + ____ = ____	5 + 7 = ____
6	____ + ____ = ____	6 + 8 = ____
7	____ + ____ = ____	7 + 9 = ____
8	____ + ____ = ____	8 + 10 = ____

Home Connection Your child used cubes to show doubles plus 2 facts, such as 6 + 8 = 14.
Home Activity Have your child use small objects, like pennies, to show a doubles fact. Then have him or her use the double to find a doubles plus 2 fact.

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

These are **doubles plus 2** facts.

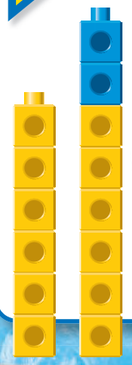
$$\begin{array}{r} 6 \\ +\,8 \\ \hline ? \end{array} \qquad \begin{array}{r} 9 \\ +\,7 \\ \hline ? \end{array}$$

There are different ways to solve a doubles plus 2 fact.

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

Double the lesser number. Then add 2.

Think 6 + 6 = 12 and 2 more.

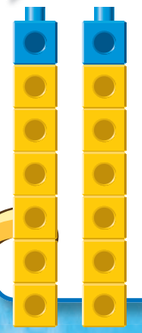


Double 6 is 12. 2 more than 12 is 14.

6 + 8 = 14

Or, double the number between.

7 is between 6 and 8.
7 + 7 = 14

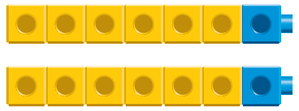


7 is between 6 and 8. Double 7 is 14.

Guided Practice

Use a doubles fact to help you add.

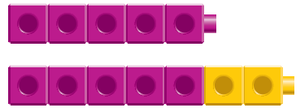
1.



__7__ + __7__ = __14__

so 6 + 8 = __14__

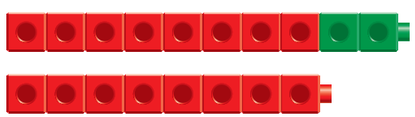
2.



____ + ____ = ____

so 5 + 7 = ____

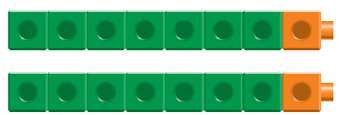
3.



____ + ____ = ____

so 10 + 8 = ____

4.



____ + ____ = ____

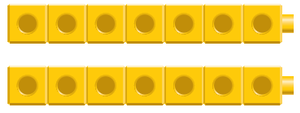
so 7 + 9 = ____

Do you understand? Which doubles facts can help solve 7 + 9? Explain.

Independent Practice

Draw 2 more cubes.
Use a doubles fact to help you add.

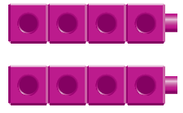
5.



____ + ____ = ____

so 7 + 9 = ____

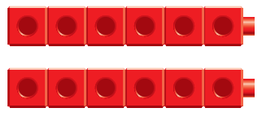
6.



____ + ____ = ____

so 6 + 4 = ____

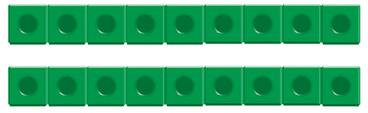
7.



____ + ____ = ____

so 8 + 6 = ____

8.



____ + ____ = ____

so 11 + 9 = ____

Algebra Write the missing number.

9. ____ + 4 = 10

10. 16 = 9 + ____

Word Bank
doubles plus 2

Problem Solving

Solve the problems below.

11. Kelly and Eric each made 6 sand castles. Then Kelly made 2 more. How many sand castles did they make in all?
Write an addition sentence to solve.

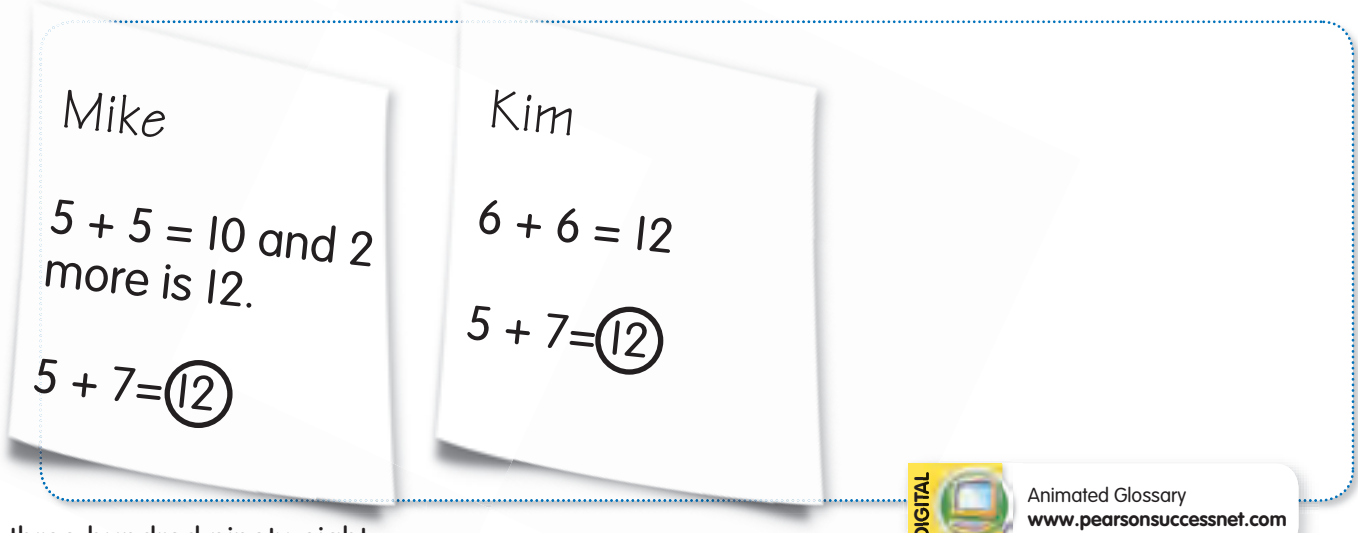
_____ + _____ = _____

_____ sand castles

12. Ben saw 7 starfish.
Jamie saw 9 starfish.
How many starfish did they see in all?

14	15	16	18
○	○	○	○

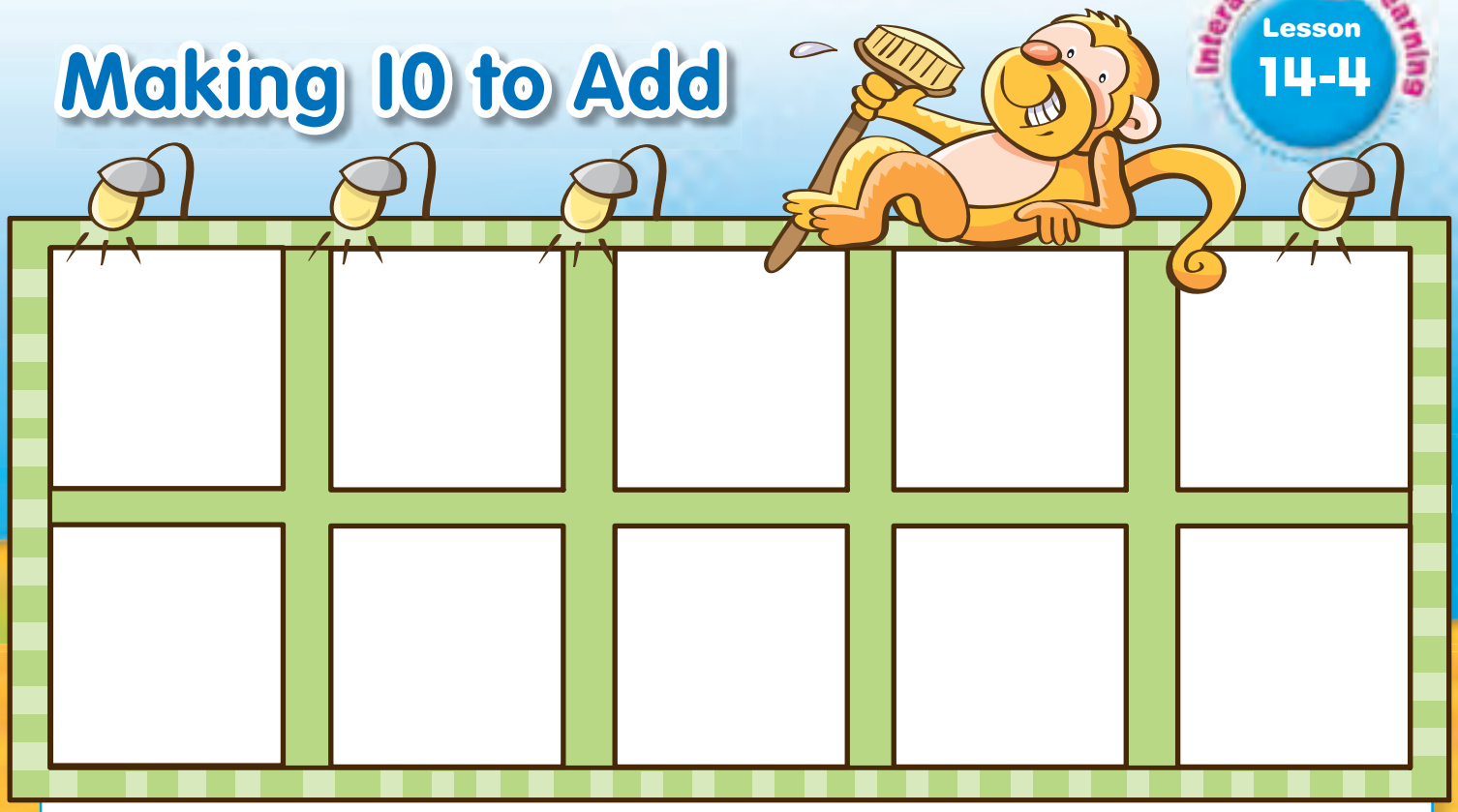
13. **Journal** Mike and Kim solved 5 + 7. They used different ways to find the answer. Are they both correct? Explain.



DIGITAL Animated Glossary www.pearsonsuccessnet.com

Name _____

Making 10 to Add



Interactive Learning
Lesson 14-4

1.

$$\begin{array}{r} 9 \\ +\ \square \\ \hline \end{array} \quad \text{is the same as} \quad \begin{array}{r} 10 \\ +\ \square \\ \hline \square \end{array} \quad \text{so} \quad \begin{array}{r} 9 \\ +\ \square \\ \hline \square \end{array}$$

2.

$$\begin{array}{r} 8 \\ +\ \square \\ \hline \end{array} \quad \text{is the same as} \quad \begin{array}{r} 10 \\ +\ \square \\ \hline \square \end{array} \quad \text{so} \quad \begin{array}{r} 8 \\ +\ \square \\ \hline \square \end{array}$$

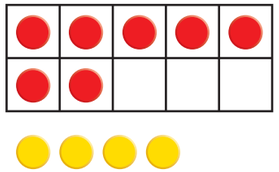
Home Connection Your child used counters to make a group of 10 in order to add one-digit numbers with sums greater than 10.

Home Activity Hold 7 pennies in one hand and 6 in the other. Have your child move the pennies to show 10 in one hand and 3 in the other. Ask your child to explain why 7 + 6 is the same as 10 + 3.

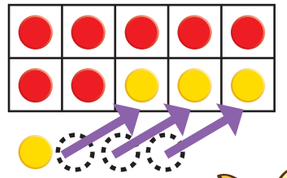
NS 2.1 Know the addition facts (sums to 20) and the corresponding subtraction facts and commit them to memory. Also **NS 2.6.**

You can make a 10 to help you add.

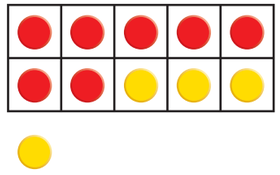
$$\begin{array}{r} 7 \\ +\ 4 \\ \hline \end{array}$$



Move 3 counters from the 4 to the 7.



10 + 1 is the same as 7 + 4.



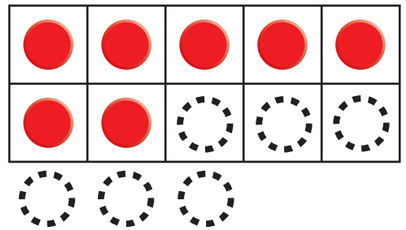
$$\begin{array}{r} 10 \\ +\ 1 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ +\ 1 \\ \hline 11 \end{array} \quad \text{so} \quad \begin{array}{r} 7 \\ +\ 4 \\ \hline 11 \end{array}$$

Guided Practice

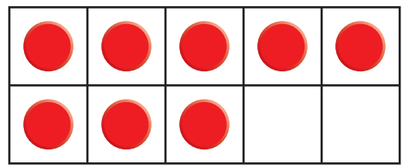
Draw the counters. Then write the sums.

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



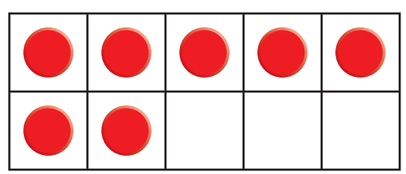
$\begin{array}{r} 10 \\ +\ 3 \\ \hline 13 \end{array}$ so $\begin{array}{r} 7 \\ +\ 6 \\ \hline \end{array}$

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



$\begin{array}{r} 10 \\ +\ 4 \\ \hline \end{array}$ so $\begin{array}{r} 8 \\ +\ 6 \\ \hline \end{array}$

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



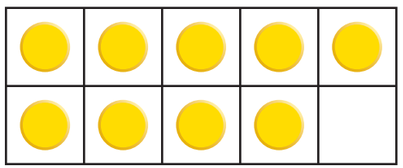
$\begin{array}{r} 10 \\ +\ 5 \\ \hline \end{array}$ so $\begin{array}{r} 7 \\ +\ 8 \\ \hline \end{array}$

Do you understand? How would you make a 10 to find the sum of 4 + 9?

Independent Practice

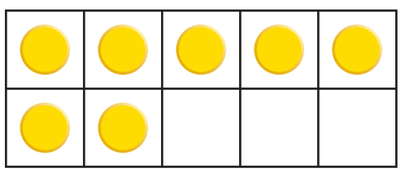
Draw the counters. Then write the sums.

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



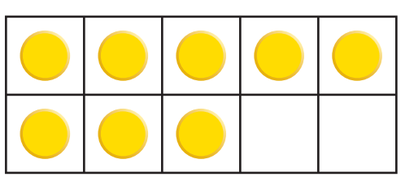
$\begin{array}{r} 10 \\ +\ 5 \\ \hline \end{array}$ so $\begin{array}{r} 9 \\ +\ 6 \\ \hline \end{array}$

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



$\begin{array}{r} 10 \\ +\ 4 \\ \hline \end{array}$ so $\begin{array}{r} 7 \\ +\ 7 \\ \hline \end{array}$

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

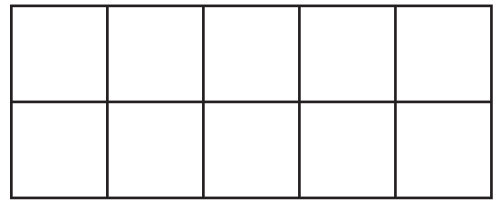


$\begin{array}{r} 10 \\ +\ 7 \\ \hline \end{array}$ so $\begin{array}{r} 8 \\ +\ 9 \\ \hline \end{array}$

Problem Solving

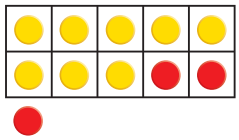
Solve the problems below.

7. Carlos saw 7 yellow taxis.
He saw 6 white taxis.
How many taxis did Carlos see in all? Draw counters to solve.

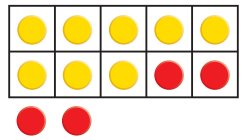


_____ taxis

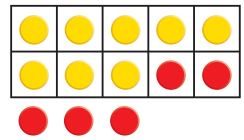
8. 8 people were on the bus.
Then 7 more people got on.
Which choice shows how to make a 10 to find the number of people on the bus?



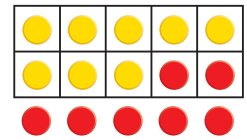
10 + 1 ○



10 + 2 ○

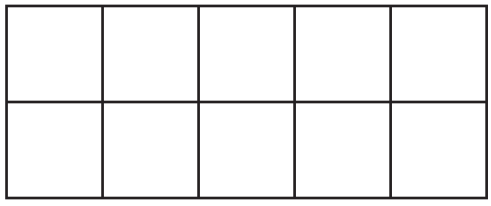


10 + 3 ○



10 + 5 ○

9. **Journal** Draw counters to show how you can make 10 to add 9 + 3. Write a number sentence about your model.



_____

FOLD

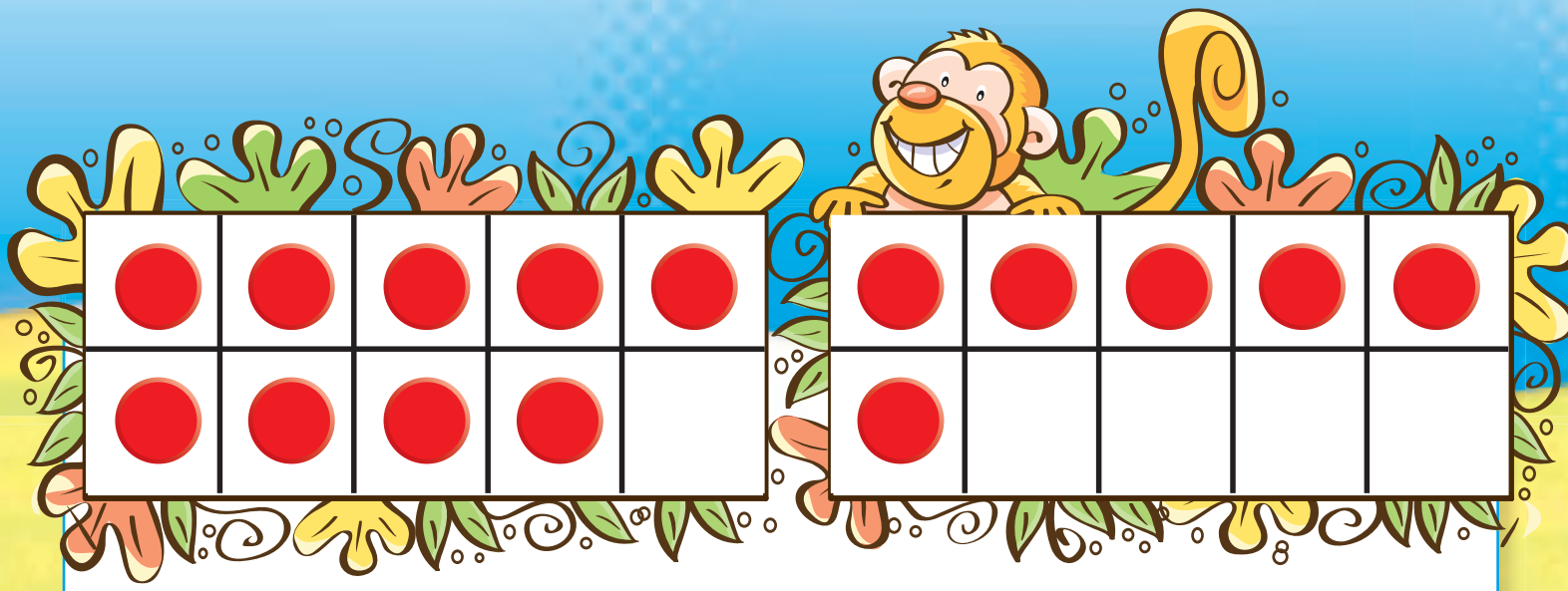
FOLD

DIGITAL eTools
www.pearsonsuccessnet.com

Name _____

Making 10 to Add 9

Interactive Learning
Lesson 14-5



1.

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

2.

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

3.

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

4.

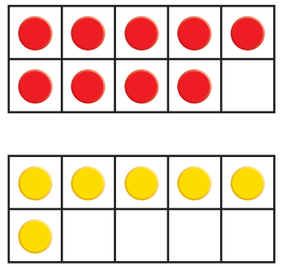
$$\begin{array}{r} 9 \\ +\ \square \\ \hline \end{array} \qquad \begin{array}{r} 10 \\ +\ \square \\ \hline \end{array}$$

Home Connection Your child learned to make an addition fact with 10 to help add 9 and another number.
Home Activity Hold out 9 pennies in one hand and 4 in the other. Have your child move the pennies to show and explain how to make 10 to add 9 + 4.

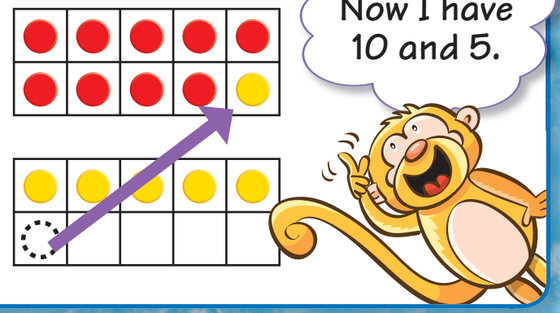
NS 2.1 Know the addition facts (sums to 20) and the corresponding subtraction facts and commit them to memory. Also **NS 2.6.**

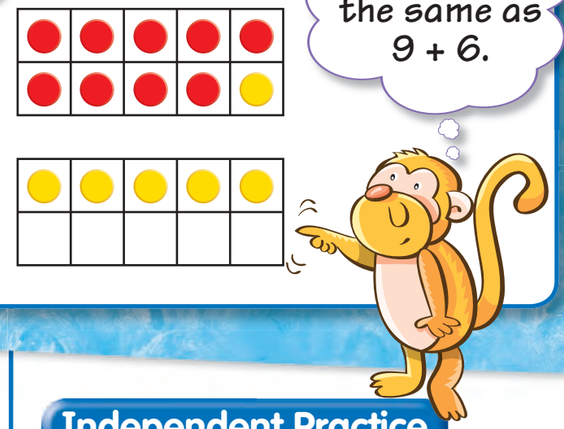
In lesson 14-4, you learned how to make a 10. This can help you add 9.

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



Move 1 counter from 6 to 9.



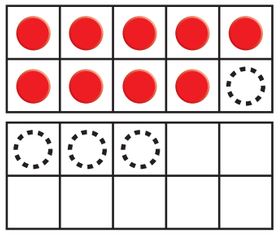


$$\begin{array}{r} 10 \\ +\ 5 \\ \hline 15 \end{array} \quad \text{so} \quad \begin{array}{r} 9 \\ +\ 6 \\ \hline 15 \end{array}$$

Guided Practice

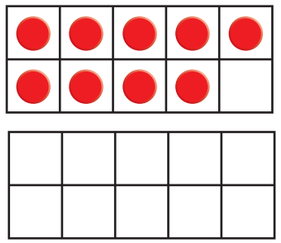
Draw counters to help you add. Then write the sums.

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



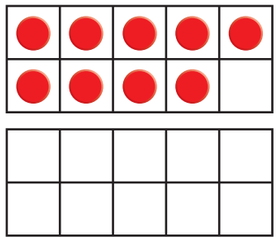
$\begin{array}{r} 10 \\ +\ 3 \\ \hline 13 \end{array}$ so $\begin{array}{r} 9 \\ +\ 4 \\ \hline 13 \end{array}$

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



$\begin{array}{r} 10 \\ +\ 6 \\ \hline \end{array}$ so $\begin{array}{r} 9 \\ +\ 7 \\ \hline \end{array}$

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



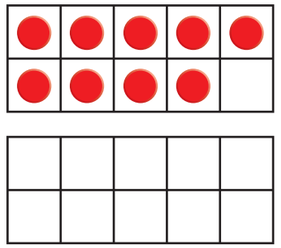
$\begin{array}{r} 10 \\ +\ 5 \\ \hline \end{array}$ so $\begin{array}{r} 9 \\ +\ 6 \\ \hline \end{array}$

Do you understand? How do you make 10 to add 9 + 3?

Independent Practice

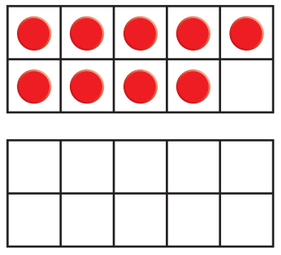
Draw counters to help you add. Write the missing addend. Then write the sums.

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



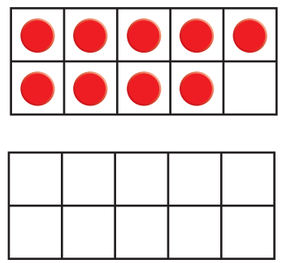
$\begin{array}{r} 10 \\ +\ \square \\ \hline \end{array}$ so $\begin{array}{r} 9 \\ +\ 8 \\ \hline \end{array}$

5. $\begin{array}{r} 9 \\ +\ 5 \\ \hline ? \end{array}$



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

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

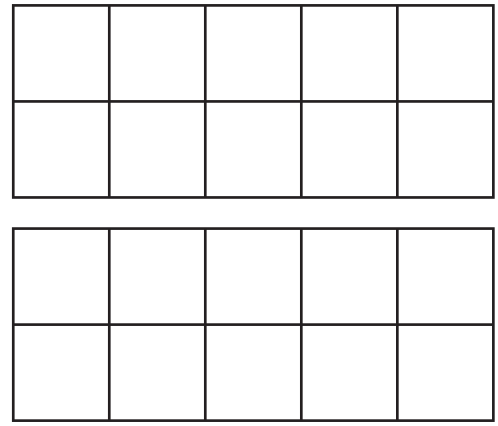


$\begin{array}{r} 10 \\ +\ \square \\ \hline \end{array}$ so $\begin{array}{r} 9 \\ +\ 9 \\ \hline \end{array}$

Problem Solving

Solve the problems below.

7. Max has 9 shells. Kara has 8 shells. How many shells do Max and Kara have in all? Draw counters and write number sentences to solve.



$9 + \square = \square$

$10 + \square = \square$

_____ shells

8. Miguel found 9 big shells. He found 5 small shells. Which choice shows how you could make 10 to find the number of shells in all?

$10 + 4 = 14$	$10 + 5 = 15$	$10 + 6 = 16$	$10 + 9 = 19$
○	○	○	○

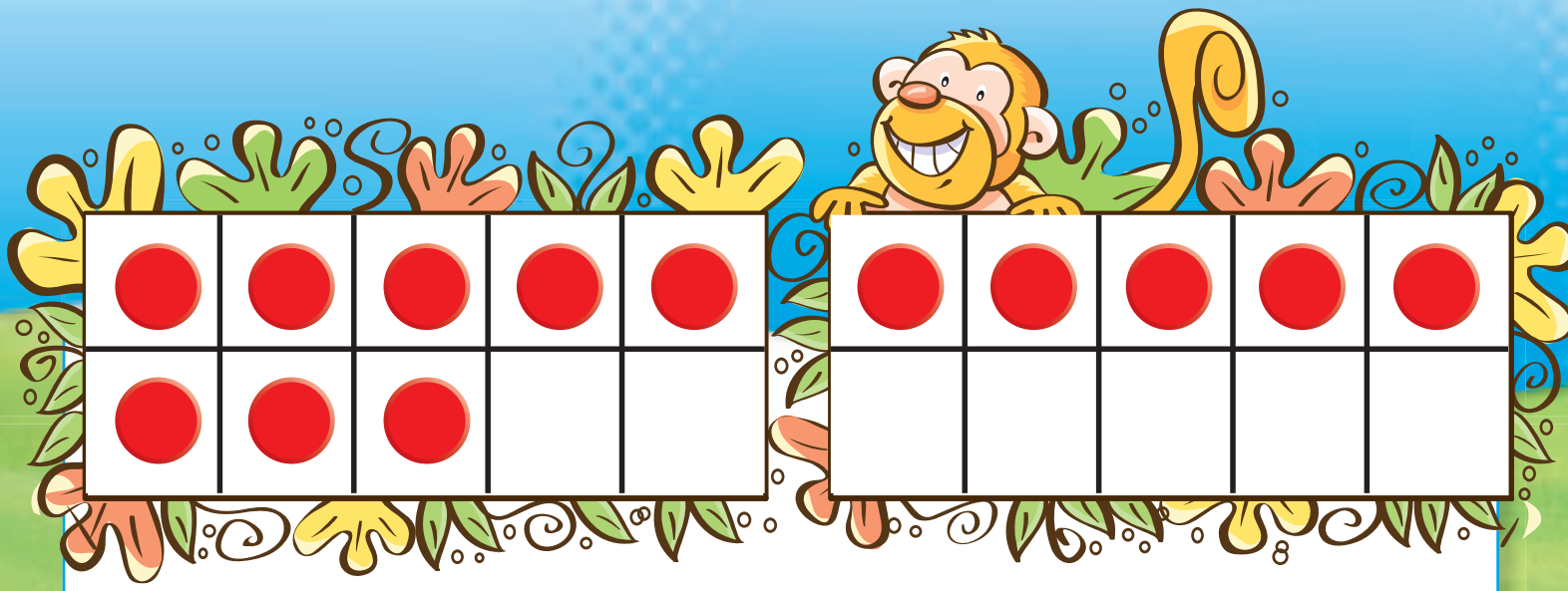
9. **Journal** Explain how you can make 10 to add $9 + 4$. Use words, numbers, or pictures.

DIGITAL eTools www.pearsonsuccessnet.com

Name _____

Making 10 to Add 8

Lesson 14-6



1.

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

2.

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

3.

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

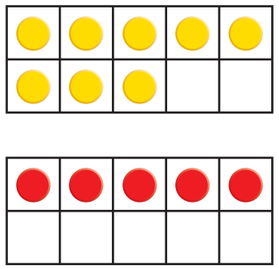
4.

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

Home Connection Your child learned to make an addition fact with 10 to help add 8 and another number.
Home Activity Hold out 8 pennies in one hand and 5 in the other. Have your child move the pennies to show and explain how to make a 10 to add 8 + 5.

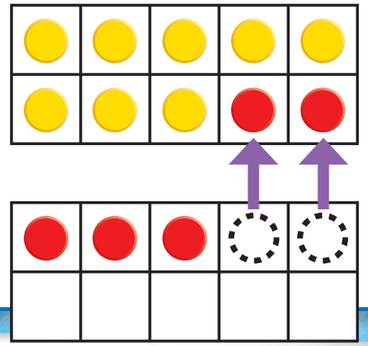
NS 2.1 Know the addition facts (sums to 20) and the corresponding subtraction facts and commit them to memory. Also **NS 2.6.**

You can make a 10 to help you add 8.

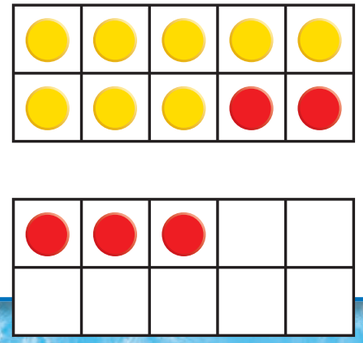


$$\begin{array}{r} 8 \\ +\ 5 \\ \hline ? \end{array}$$

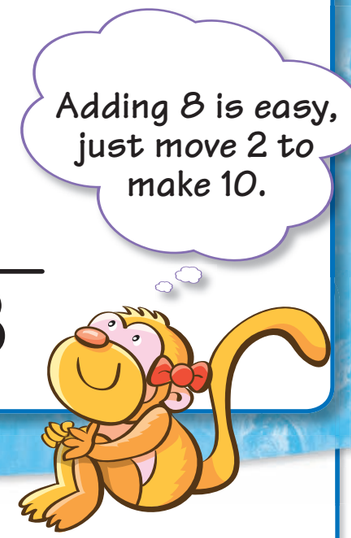
Move 2 from the 5 to the 8. Now you have 10 + 3.



10 + 3 is the same as 8 + 5.



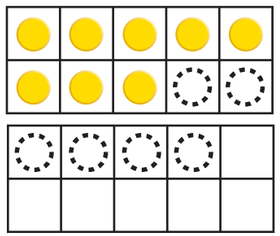
$$\begin{array}{r} 10 \\ +\ 3 \\ \hline 13 \end{array} \quad \text{so} \quad \begin{array}{r} 8 \\ +\ 5 \\ \hline 13 \end{array}$$



Guided Practice

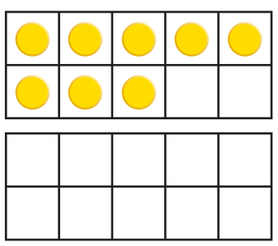
Draw counters to help you add. Then write the sums.

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



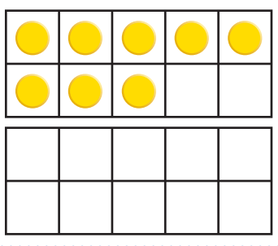
$\begin{array}{r} 10 \\ +\ 4 \\ \hline 14 \end{array}$ so $\begin{array}{r} 8 \\ +\ 6 \\ \hline 14 \end{array}$

2. $\begin{array}{r} 8 \\ +\ 7 \\ \hline ? \end{array}$



$\begin{array}{r} 10 \\ +\ 5 \\ \hline \end{array}$ so $\begin{array}{r} 8 \\ +\ 7 \\ \hline \end{array}$

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



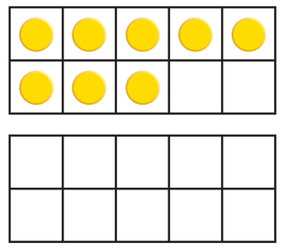
$\begin{array}{r} 10 \\ +\ 3 \\ \hline \end{array}$ so $\begin{array}{r} 8 \\ +\ 5 \\ \hline \end{array}$

Do you understand? When making a 10 to add 8 + 4, what happens to the 4?

Independent Practice

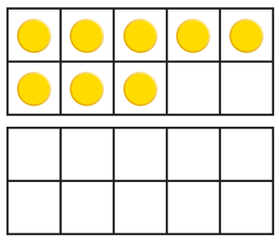
Draw counters to help you add. Write the missing addend. Then write the sums.

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



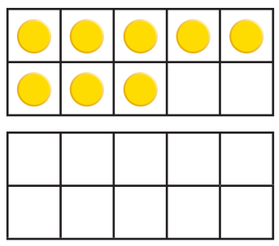
$\begin{array}{r} 10 \\ +\ \square \\ \hline \end{array}$ so $\begin{array}{r} 8 \\ +\ 4 \\ \hline \end{array}$

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



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

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

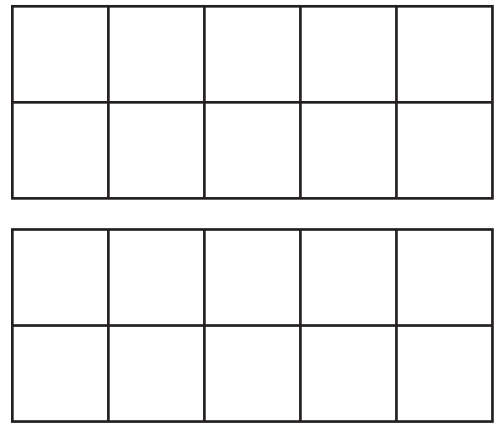


$\begin{array}{r} 10 \\ +\ \square \\ \hline \end{array}$ so $\begin{array}{r} 8 \\ +\ 9 \\ \hline \end{array}$

Problem Solving

Solve the problems below.

7. Adam counted 8 cars. He counted 6 trucks. How many cars and trucks did Adam count in all? Draw counters and fill in the number sentences.



$8 + \square = \square$

$10 + \square = \square$

_____ cars and trucks

8. Lynn counted 8 red flowers and 7 yellow flowers. Which addition sentence shows how many flowers Lynn counted in all?

$10 + 5 = 15$	$10 + 6 = 16$	$10 + 7 = 17$	$10 + 8 = 18$
○	○	○	○

9. **Journal** Write a word problem that adds 8 to another number. Write an addition sentence with 10 that you could use to add.

_____

_____

_____

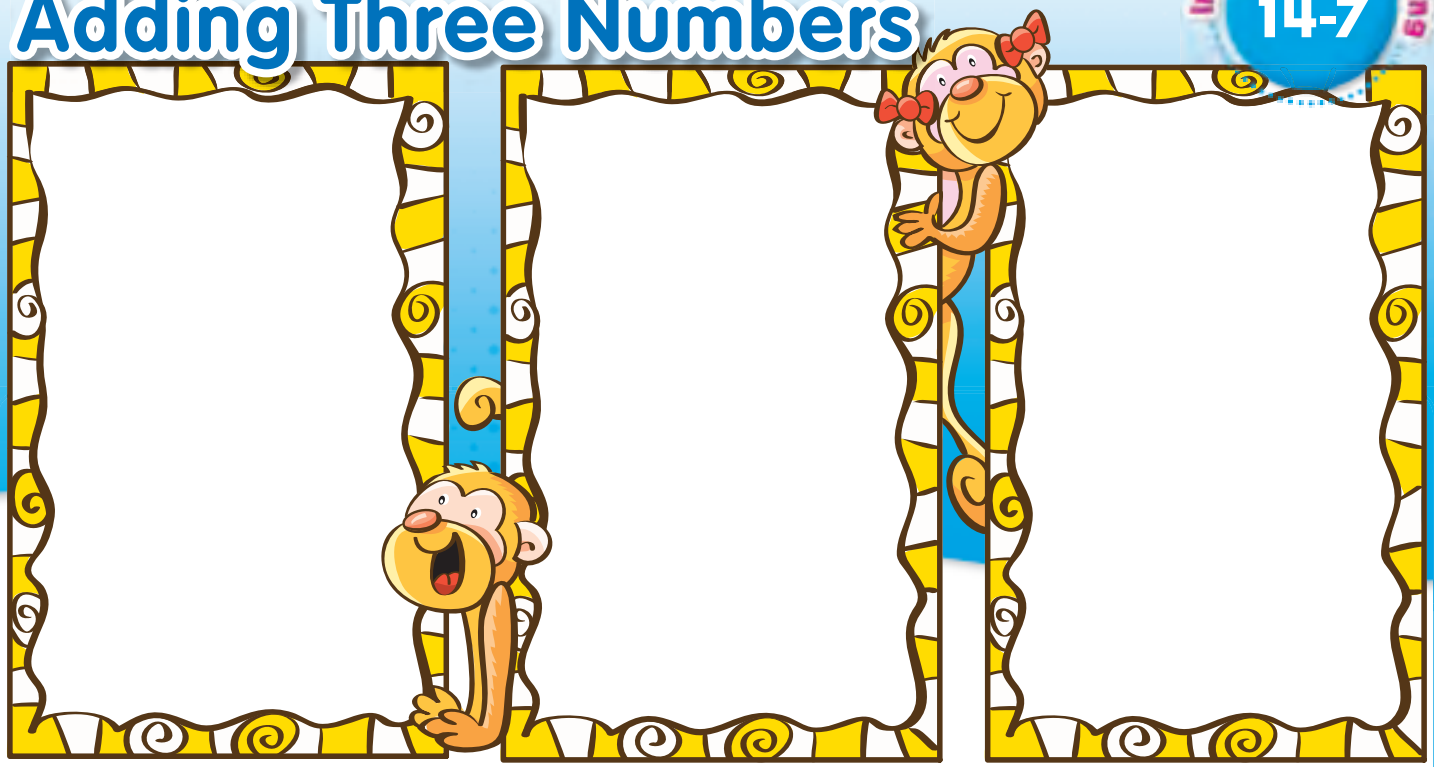
DIGITAL eTools www.pearsonsuccessnet.com

Name _____

Interactive Learning

Lesson 14-7

Adding Three Numbers



1.

___ + ___ = □

□ + ___ = ___

2.

___ + ___ = □

□ + ___ = ___

3.

___ + ___ = □

□ + ___ = ___

4.

___ + ___ = □

□ + ___ = ___

Home Connection Your child learned that three numbers can be added in any order and the sum will be the same.

Home Activity Ask your child to show two different ways to add 3, 6, and 4.

NS 2.7 Find the sum of three one-digit numbers.

You can add three numbers.

$$8 + 6 + 2$$

Pick 2 numbers to add first.

You can make 10.

$8 + 6 + 2 = 16$

10

$8 + 2 = 10$
$10 + 6 = 16$

You can make a double.

$8 + 6 + 2 = 16$

8

$6 + 2 = 8$
$8 + 8 = 16$

You can add any two numbers first.

$3 + 5 = 8$, $8 + 4 = 12$

$3 + 5 = 8$, $5 + 4 = 9$

The sums are the same.

Guided Practice

Add the circled numbers first.
Write their sum in the box.
Then write the sum of all 3 numbers.

1. $2 + 9 + 1 = 12$ (11) $\qquad 2 + 9 + 1 = 12$ (10)

2. $6 + 3 + 2 =$ ____ $\qquad 6 + 3 + 2 =$ ____

3. $5 + 5 + 3 =$ ____ $\qquad 5 + 5 + 3 =$ ____

Do you understand? Why can you pick any 2 numbers to add first when you add 3 numbers?

Independent Practice

Circle 2 numbers to add first.
Write their sum in the box.
Then write the sum of all 3 numbers.

4. $6 + 6 + 1 =$ ☐

5. $3 + 7 + 8 =$ ☐

6. $8 + 9 + 1 =$ ☐

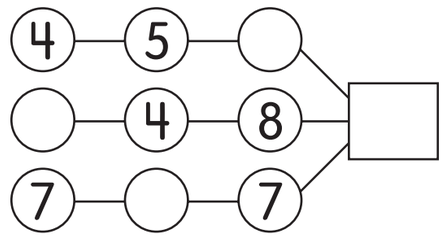
7. $7 + 3 + 3 =$ ☐

8. $2 + 2 + 8 =$ ☐

9. $5 + 4 + 9 =$ ☐

Algebra Find the missing numbers.

10. The numbers on each branch add up to 15.



Problem Solving

Solve the problems below.

11. Tara put 4 pennies, 5 nickels, and 6 dimes in her bank. How many coins did Tara put in her bank in all? Write a number sentence to solve the problem.

_____ + _____ + _____ = _____

_____ coins

12. Dave bought 3 pencils, 8 markers, and 5 pens. He wants to know how many items he bought in all. He added 3 + 5 first. What should Dave add next?

3 + 8	3 + 13	8 + 5	8 + 8
◯	◯	◯	◯

13. **Journal** Explain how to add 7 + 2 + 3. Use pictures, numbers, or words.

FOLD

FOLD

Name _____

Lesson 14-8

Problem Solving

Two-Question Problems

1. _____ ◯ _____ = _____

   _____ ◯ _____ = _____

2. _____ ◯ _____ = _____

   _____ ◯ _____ = _____

Home Connection Your child solved math problems containing two questions by using the answer from the first question to solve the second question.

Home Activity Read the following question: Linda had 9 crackers. Her mom gave her 3 more. How many crackers does Linda have now? [12] Then Linda ate 4 crackers. How many crackers are left? [8]

MR 3.0 Students note connections between one problem and another. Also **MR 2.2, NS 2.1**.

Read and Understand

Emilio had 6 toys to sell.
His brother had 5 toys to sell. How many toys did they have to sell altogether?

They then sold 8 toys.
How many toys are left?

Plan

I can use the answer to the first question to answer the second question.

$6 + 5 = ?$

Solve

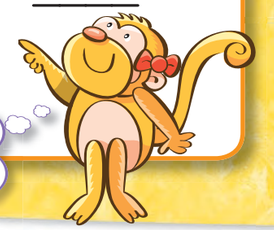
$6 + 5 = 11$

They had 11 toys to sell.

$11 - 8 = 3$

3 toys are left.

They sold 8 toys. So 3 toys are left.



Look Back and Check

$3 + 8 = 11$

They have 3 toys left. They sold 8 toys. So, they had 11 toys to sell.

Guided Practice

Write number sentences to solve both parts.

1. 8 friends sit at a table.
2 more friends join them.
How many friends are at the table now?

8 + 2 = 10

3 friends leave the table.
How many friends are still at the table?

10 − 3 = 7

2. Rachel blows up 12 balloons.
3 balloons pop.
How many balloons are left?

____ ◯ ____ = ____

She blows up 5 more balloons. How many balloons are there now?

____ ◯ ____ = ____

Do you understand? In the exercises above, why do you need to solve the first part before the second part?

Independent Practice

Write number sentences to solve both parts.

3. 7 children are hiking on a trail.
3 adults go with them.
How many people are hiking in all?

____ ◯ ____ = ____

4 more adults join the hikers.
Now how many hikers are there?

____ ◯ ____ = ____

4. 12 birds sit on a roof.
5 of the birds fly away.
How many birds are still on the roof?

____ ◯ ____ = ____

5 more birds fly away.
Now how many birds are on the roof?

____ ◯ ____ = ____

Problem Solving

Solve the problems below.

5. 3 children are playing hopscotch. 4 more children join them.
How many children are playing hopscotch altogether?

_____ ◯ _____ = _____ children

2 children leave and go home.
How many children are playing hopscotch now?

_____ ◯ _____ = _____ children

6. Mary found 8 shells. She gave 3 of them away.
How many shells does Mary have left?
Mary then found 5 more shells.
How many shells does she have now?
Mark the number sentences that match the story.

$8 + 3 = 11$ and $11 + 5 = 16$	$8 + 3 = 11$ and $11 - 5 = 6$	$8 - 3 = 5$ and $5 + 5 = 10$	$8 - 3 = 5$ and $5 - 5 = 0$
◯	◯	◯	◯

7. **Journal** Draw pictures that show a two-question problem for $4 + 2 = 6$ and then $6 - 3 = 3$. Tell your friend a story about the pictures.

FOLD

FOLD

Topic 14 Test

Name _____

1

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

- ○ 17
- ○ 18
- ○ 19
- ○ 20

2

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

- ○ 14
- ○ 15
- ○ 16
- ○ 17

3

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

- ○ 10
- ○ 11
- ○ 12
- ○ 13

4 $7 + 6 =$

- ○ $10 + 2 = 12$
- ○ $10 + 3 = 13$
- ○ $10 + 4 = 14$
- ○ $10 + 5 = 15$

Oral Directions Say: Mark the correct answer. **1–3.** Solve. **4.** Mark the ten fact that can help you solve the problem.

5 $9 + 3 =$

$10 + 0 = 10$	$10 + 1 = 11$	$10 + 2 = 12$	$10 + 3 = 13$
○	○	○	○

6 $7 + 8 =$

$10 + 5 = 15$	$10 + 4 = 14$	$10 + 3 = 13$	$10 + 2 = 12$
○	○	○	○

7

$$\begin{array}{r} 6 \\ 7 \\ +\ 2 \\ \hline \end{array}$$

15	14	13	12
○	○	○	○

8

$6 - 4 = 2$ and $2 + 3 = 5$	$10 - 4 = 6$ and $6 + 3 = 9$	$4 + 6 = 10$ and $10 - 3 = 7$	$4 + 6 = 10$ and $6 + 3 = 9$
○	○	○	○

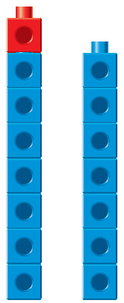
Oral Directions Say: Mark the correct answer. **5 – 6.** Mark the ten fact that can help you solve the problem. **7.** Solve. **8.** Which 2 number sentences help you solve the problem? Wade has 4 crackers. His Dad gave him 6 more crackers. How many crackers does Wade have in all? Then Wade ate 3 crackers. How many crackers are left?

Topic 14

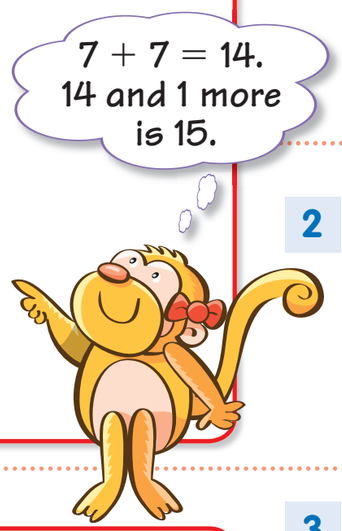
Reteaching

Set A

A doubles plus 1 fact is a doubles fact and 1 more.



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



$$\begin{array}{r} 8 \\ +\ 7 \\ \hline 15 \end{array}$$

Add the doubles. Then use the doubles to help you add.

1

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

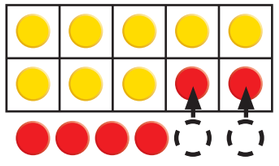
2

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

Set B

Make 10 to help you add.

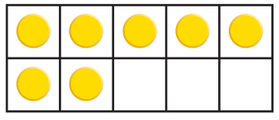
$$\begin{array}{r} 8 \\ +\ 6 \\ \hline ? \end{array}$$



$$\begin{array}{r} 10 \\ +\ 4 \\ \hline 14 \end{array} \quad \text{so} \quad \begin{array}{r} 8 \\ +\ 6 \\ \hline 14 \end{array}$$

3 Draw the counters. Then write the sums.

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



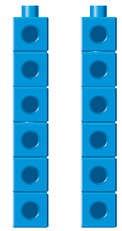
$$\begin{array}{r} 10 \\ +\ 5 \\ \hline \end{array} \quad \text{so} \quad \begin{array}{r} 7 \\ +\ 8 \\ \hline \end{array}$$

Set C

Knowing doubles can help you add.

Add. Then circle the double.

$$\begin{array}{r} 5 \\ +\ 3 \\ \hline 8 \end{array} \qquad \begin{array}{r} (6) \\ +\ 6 \\ \hline 12 \end{array}$$



12 = 6 + 6
12 is double 6.
Both addends are the same.

Add. Then circle the doubles.

4

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

5

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

6

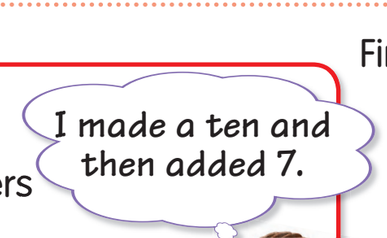
$$\begin{array}{r} 2 \\ +\ 9 \\ \hline \end{array}$$

7

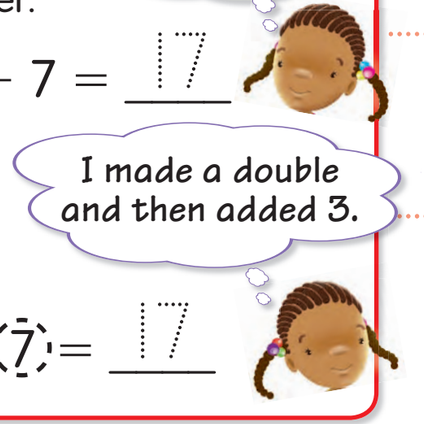
$$\begin{array}{r} 5 \\ +\ 5 \\ \hline \end{array}$$

Set D

You can add three numbers in any order.



(7) + (3) + 7 = 17



(7) + 3 + (7) = 17

Find the sum.

8 5 + 5 + 9 = ____

9 9 + 5 + 1 = ____

10 6 + 4 + 4 = ____