Name _____

Algebra • Relate Addition and Subtraction

Essential Question How are addition and subtraction related?

Listen and Draw Real World

Complete the bar model to show the problem.

8	7

_____

_____ soccer balls

_____	7
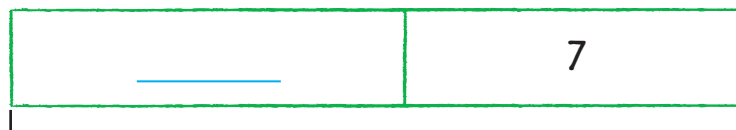
15

_____ soccer balls

FOR THE TEACHER • Read the following problems. Have children complete the bar model for each. The soccer team has 8 red balls and 7 yellow balls. How many soccer balls does the team have? The soccer team has 15 balls inside the locker room. The children took the 7 yellow balls outside. How many soccer balls were inside?

Math Talk
MATHEMATICAL PRACTICES 6
Explain how the bar models for the problems are alike and how they are different.

Model and Draw

You can use addition facts to remember **differences**. Related facts have the same whole and parts.

> Think of the addends in an addition fact to find the difference for a related subtraction fact.

6	7

13

$6 + 7 = \underline{13}$

	7

13

$13 - 7 = \underline{}$

Share and Show

MATH BOARD

Write the sum and the difference for the related facts.

1. $5 + 4 = \underline{}$

$9 - 4 = \underline{}$

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

$9 - 2 = \underline{}$

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

$11 - 8 = \underline{}$

4. $5 + 8 = \underline{}$

$13 - 5 = \underline{}$

5. $\underline{} = 1 + 8$

$\underline{} = 9 - 1$

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

$18 - 9 = \underline{}$

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

$\underline{} = 15 - 8$

8. $4 + 7 = \underline{}$

$11 - 7 = \underline{}$

9. $7 + 5 = \underline{}$

$12 - 7 = \underline{}$

On Your Own

Write the sum and the difference for the related facts.

10. $4 + 3 =$ _____

$7 - 3 =$ _____

11. $2 + 6 =$ _____

$8 - 6 =$ _____

12. $6 + 4 =$ _____

$10 - 6 =$ _____

13. $7 + 3 =$ _____

$10 - 7 =$ _____

14. $8 + 6 =$ _____

$14 - 6 =$ _____

15. _____ $= 3 + 9$

_____ $= 12 - 9$

16. $6 + 5 =$ _____

$11 - 5 =$ _____

17. $7 + 7 =$ _____

$14 - 7 =$ _____

18. $9 + 6 =$ _____

$15 - 9 =$ _____

19. $5 + 9 =$ _____

$14 - 9 =$ _____

20. _____ $= 4 + 8$

_____ $= 12 - 4$

21. $9 + 7 =$ _____

$16 - 7 =$ _____

MATHEMATICAL PRACTICE 6 **Make Connections**

Write a related subtraction fact for each addition fact.

22. $7 + 8 = 15$

_____

23. $5 + 7 = 12$

_____

24. $6 + 7 = 13$

_____

25. $9 + 8 = 17$

_____

Problem Solving • Applications

WRITE Math

Solve. Write or draw to explain.

26. Trevor has 7 kites. Pam has 4 kites. How many more kites does Trevor have than Pam?

_____ more kites

27. **THINK SMARTER** Mr. Sims has a bag of 7 pears and a bag of 6 pears. His family eats 5 pears. How many pears does he have now?

_____ pears

28. **THINK SMARTER** Elin counts 7 geese in the water and some geese on the shore. There are 16 geese in all. Draw a picture to show the two groups of geese.

Write a number sentence that can help you find how many geese are on the shore.

_____

How many geese are on the shore? _____ geese

TAKE HOME ACTIVITY • Ask your child to name some subtraction facts that he or she knows well.

Algebra • Relate Addition and Subtraction

Write the sum and the difference for the related facts.

1. $9 + 6 =$ ____ $15 - 6 =$ ____	**2.** $8 + 5 =$ ____ $13 - 5 =$ ____	**3.** $9 + 9 =$ ____ $18 - 9 =$ ____
4. $7 + 3 =$ ____ $10 - 3 =$ ____	**5.** $7 + 5 =$ ____ $12 - 5 =$ ____	**6.** $6 + 8 =$ ____ $14 - 6 =$ ____
7. $6 + 7 =$ ____ $13 - 6 =$ ____	**8.** $8 + 8 =$ ____ $16 - 8 =$ ____	**9.** $6 + 4 =$ ____ $10 - 4 =$ ____

Problem Solving Real World

Solve. Write or draw to explain.

10. There are 13 children on the bus. Then 5 children get off the bus. How many children are on the bus now?

____ children

11. **WRITE** **Math** Write a related subtraction fact for $9 + 3 = 12$. Explain how the two facts are related.

_____

Lesson Check

1. Write a related addition fact for $15 - 6 = 9$.

___ + ___ = ___

2. Write a related subtraction fact for $5 + 7 = 12$.

___ − ___ = ___

Spiral Review

3. What is another way to write 4 hundreds?

___

4. What is the next number in the pattern?

$$515, 615, 715, 815, \underline{}$$

5. What number is 10 more than 237?

___

6. Write the number 110 as a sum of hundreds and tens.

___ + ___

FOR MORE PRACTICE
GO TO THE
Personal Math Trainer