Name _____

Help | Practice Buddy | Tools | Games

Homework & Practice 5-4
Use Strategies to Multiply

MAN HW (due Tues.)

Another Look!

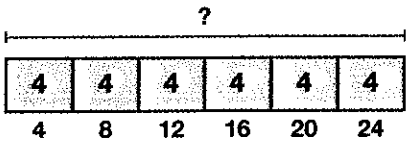
Find 6×4.

One Way

Draw a bar diagram and use skip counting.

6×4 means 6 groups of 4.

Each section of the bar diagram is 1 group of 4.

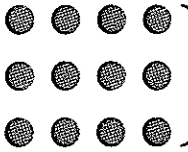


Skip count by 4s to solve.

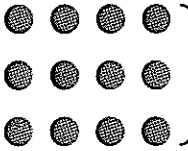
So, $6 \times 4 = 24$.

Another Way

Using the Distributive Property is another way to solve this problem. Use 3s facts to help.



$3 \times 4 = 12$



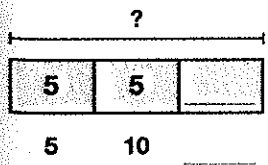
$3 \times 4 = 12$

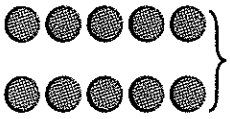
$12 + 12 = 24$

So, $6 \times 4 = 24$.

In 1 and 2, show two different ways to find the product.

1. $3 \times 5 = ?$





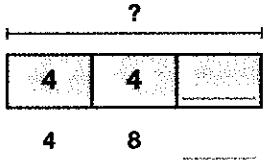
$2 \times 5 =$ _____

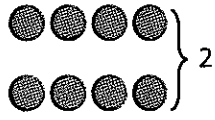
$1 \times 5 =$ _____

$3 \times 5 =$ _____

$10 +$ _____ $=$ _____

2. $3 \times 4 = ?$





$2 \times 4 =$ _____

$1 \times 4 =$ _____

$3 \times 4 =$ _____

$8 +$ _____ $=$ _____

In 3–8, multiply.

3. $7 \times 2 =$ _____

4. $8 \times 5 =$ _____

5. $6 \times 8 =$ _____

6. $9 \times 7 =$ _____

7. $4 \times 8 =$ _____

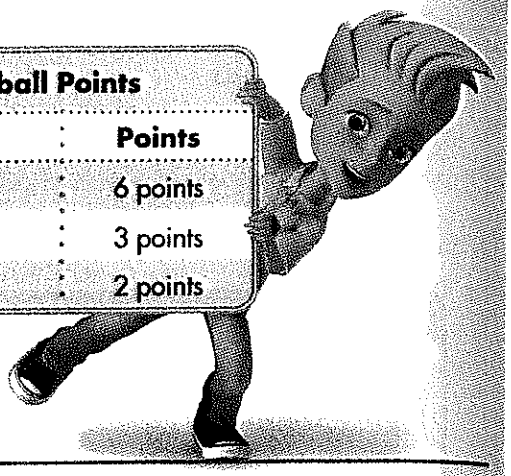
8. $7 \times 3 =$ _____

9. Make Sense and Persevere The home team scored 3 touchdowns. The visiting team scored 4 field goals. Which team scored more points? Show your strategy.

DATA

Football Points

Type	Points
Touchdown	6 points
Field Goal	3 points
Safety	2 points



10. Critique Reasoning Rick says, "To find 2×5, I can skip count by 5s: 5, 10, 15, 20, 25. The product is 25." Explain what Rick did wrong.

11. Algebra Write the symbols to make the equations correct.

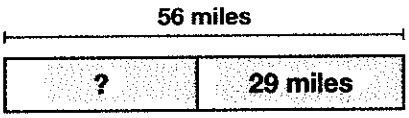
$81 = 9 \square 9$

$9 \square 6 = 54$

$9 = 72 \square 8$

12. Higher Order Thinking Jill has 4 bags of marbles. There are 3 red, 5 green, 2 yellow, and 6 black marbles in each bag. How many marbles does Jill have? Show how you found the answer.

13. Mr. Roberts plans to drive a total of 56 miles. He has 29 more miles to go. How many miles has he driven so far?



Assessment

14. Tia counted the campers and beds in 7 cabins. Each cabin had 9 campers and 12 beds. How many campers were in the 7 cabins?

Ⓐ 84 campers Ⓒ 63 campers

Ⓑ 72 campers Ⓓ 35 campers

15. Which of the following does **NOT** show a way to find the product of 2×5?

Ⓐ 5×2

Ⓑ $5 + 5 + 5$

Ⓒ $2 + 2 + 2 + 2 + 2$

Ⓓ $(2 \times 2) + (3 \times 2) = 4 + 6$

Name _____

Help Practice Buddy Tools Games

Homework & Practice 5-5

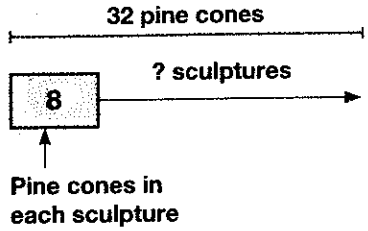
Solve Word Problems: Multiplication and Division Facts

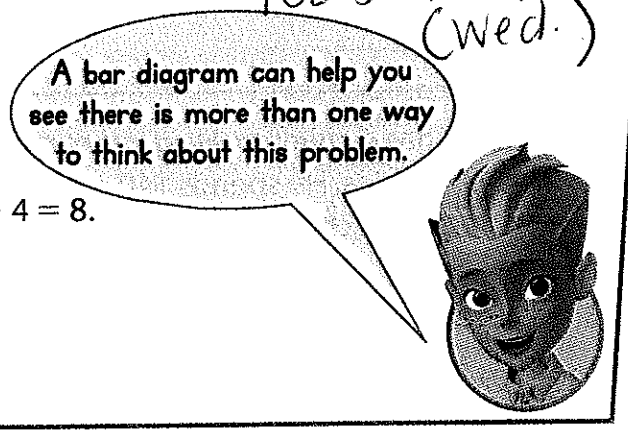
TUES HW (due Wed.)

Another Look!

Rico has 32 pine cones. He uses 8 pine cones to make a sculpture in art class. If Rico makes more sculptures with 8 pine cones for each, how many total sculptures can he make?

Draw a bar diagram to represent the problem.





Multiply or divide to solve: $8 \times 4 = 32$ or $32 \div 4 = 8$.

So, Rico can make 4 sculptures.

In 1 and 2, draw a bar diagram to represent the problem. Then solve.

1. Victor buys some six-packs of soda for a party. He buys 42 cans in all. How many six-packs of soda did Victor buy?

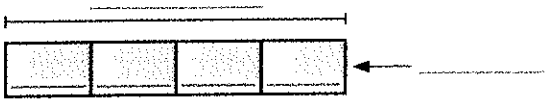
2. Lester listens to 8 songs every time he does his exercise routine. He did his exercise routine 3 times this week. How many songs did Lester listen to while exercising this week?

In 3 and 4, write an equation with an unknown to represent the problem. Then solve.

3. There are 9 players on a baseball team. A club has 9 baseball teams. How many baseball players are in the club?

4. Megan earned $4 for an hour of babysitting. On Saturday, she earned $16. How many hours did she babysit?

5. **Model with Math** Andre is setting up folding chairs for a school assembly. He sets up 4 rows of chairs. Each row has 7 chairs. How many chairs does Andre set up? Complete the bar diagram and write an equation to solve.



6. **Higher Order Thinking** 36 students ride a school bus route home. The same number of students get off at each stop. Harriet knows how many students got off at one stop. How could she find how many stops the bus made?

7. Mr. Ameda has 4 children. He gives each of them 2 cookies. He spends $40 on the cookies. How much did each cookie cost?

8. Yogesh has 3 quarters, 1 dime, and 2 pennies. How much money does he have?

9. **Critique Reasoning** Neville and Anthony are solving this problem: Barbara bought 3 boxes of pencils with 6 pencils in each box. How many pencils did she buy in all?

   Neville says, "I add because of the words *in all*. The answer is 9 pencils." Anthony says, "I multiply because there are equal groups. The answer is 18 pencils." Who is correct? Explain.

Assessment

10. Garrett uses 5 apples to bake an apple pie. On Sunday, he bakes 2 pies.

Part A

How many apples does Garrett need on Sunday? Write an equation that could be used to find the answer to this problem. Solve that equation.

Part B

On each of the next three days, Garrett will bake the same number of apple pies that he baked on Sunday. Explain how you can use what you know from Part A to find how many apples Garrett needs for those three days.

Name _____

Help Practice Buddy Tools Games

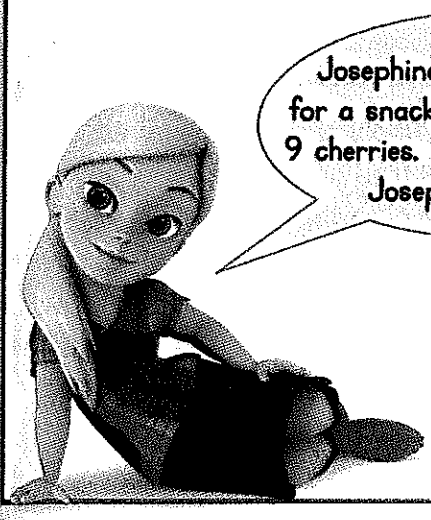
Homework & Practice 5-6

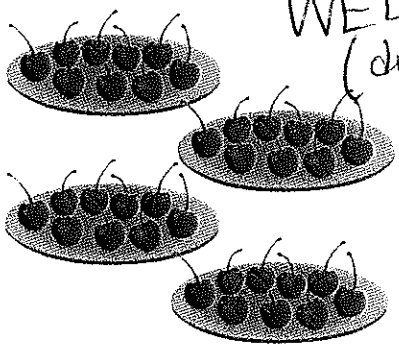
Write Math Stories: Multiplication

WED. HW (due Thurs.)

Another Look!

Write a story for 4 × 9.





4 × 9 = 36

Josephine gave 36 cherries in all.

In 1–6, write a multiplication story for each equation. Then find the product. You can draw a picture to help.

1. 4 × 3 = ____

2. 5 × 2 = ____

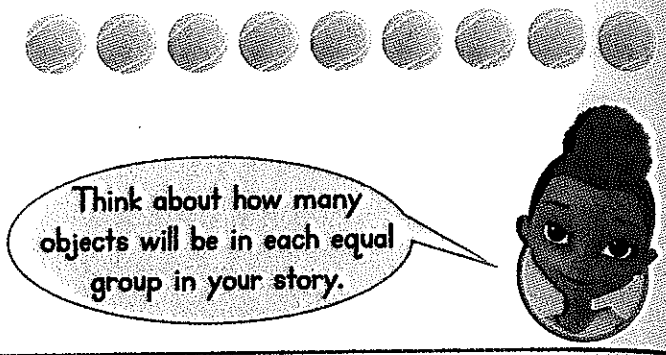
3. 4 × 6 = ____

4. 7 × 5 = ____

5. 8 × 5 = ____

6. 9 × 4 = ____

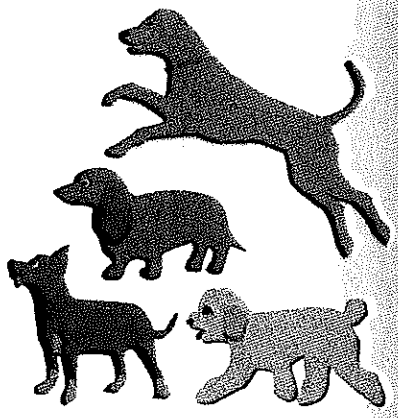
7. **Reasoning** Write a multiplication story about these tennis balls. Write an equation for your story.



8. Draw a bar diagram that shows 6×7. How many sections does your bar diagram have? Explain. Then find the product.

9. **Be Precise** Perry counted 8 leaves on each of 9 tree branches. Write a multiplication equation to find how many leaves there are in all. Then use the Commutative Property to find how many leaves there are on 8 tree branches that each have 9 leaves.

10. **Higher Order Thinking** Judy is a dog walker. Some days she walks 4 dogs. Other days she walks 6 dogs. Including Judy's legs, how many legs could be in the group when Judy walks the dogs? Explain how you found the answer.



Assessment

11. Write a multiplication story for 4×9. Then find the product.

12. Alvin has 8 bunches of 5 bananas each. Draw a picture to find the total number of bananas. Then write a multiplication equation to describe the problem.

Name _____

Help Practice Buddy Tools Games

Homework & Practice 5-7

Write Math Stories: Division

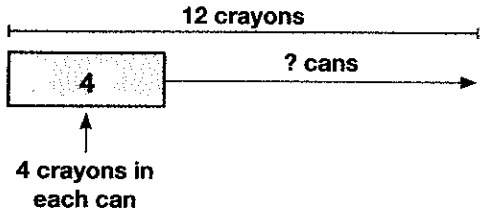
Thurs HW (due Fri.)

Another Look!

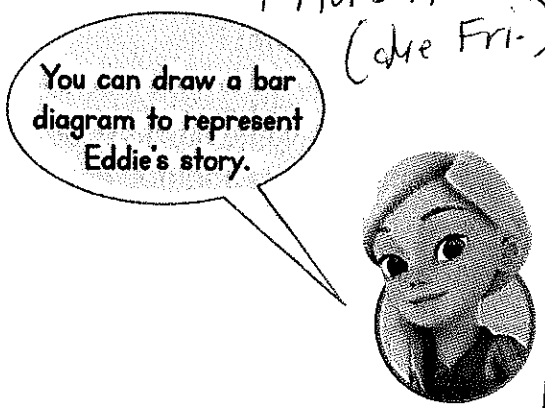
Eddie was asked to write a division story using $12 \div 4 = \square$

This is Eddie's story:

Cami has 12 crayons and some cans.
She put 4 crayons in each can.
How many cans did Cami use?



$12 \div 4 = 3$. So, Cami used 3 cans.



In 1 and 2, write the missing information to plan a division story for each equation. Write the story. Use counters or draw a picture to solve.

1. $10 \div \_\_\_\_ = 5$

I will write about 10 _____.
I will put them in groups of 5.

2. $21 \div 7 = \_\_\_\_$

I will write about 21 _____.
I will put them in 7 equal groups.

In 3 and 4, write a division story for each equation. Use counters or draw a picture to solve.

3. $48 \div 6 = \_\_\_\_$

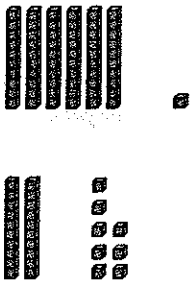
4. $56 \div \_\_\_\_ = 8$

5. **Make Sense and Persevere** Sheila wrote a division story. She wrote about how to divide 24 flowers into equal groups. What information must she give about the groups?

6. **Vocabulary** Jean wrote the numbers 0, 6, 12, 18, 24, and 30 on a piece of paper. Complete the sentence to describe what each of these numbers has in common with the number 6.

They are all _____ of 6.

7. Vera uses place-value blocks to add two numbers. What addition equation can Vera use?



8. **Be Precise** There are 16 people at a party. They want to set up relay teams with exactly 3 people on each team. Will each person be on a team? Explain.

9. **Higher Order Thinking** Complete the sentences with numbers that make sense. Do not use the number 1. Then write the division equation that matches the story, and draw a picture to solve.

"There are 35 rabbits at the fair. The rabbits are kept in _____ hutches with _____ rabbits in each hutch."

Assessment

10. Write a division story for 49 ÷ 7. Draw a picture to represent your story. Then solve.