

Name _____

Multiplying by Multiples of 10, 100, or 1,000

P 5-1

Find each product. Use mental math.

1. $6 \times 70 =$ _____

2. $80 \times 2 =$ _____

3. $40 \times 9 =$ _____

4. $10 \times 3 =$ _____

5. $4 \times 500 =$ _____

6. $300 \times 9 =$ _____

7. $8 \times 600 =$ _____

8. $7 \times 400 =$ _____

9. $6 \times 2,000 =$ _____

10. $8,000 \times 5 =$ _____

11. $8 \times 6,000 =$ _____

12. $4,000 \times 3 =$ _____

13. **Number Sense** How many zeros will the product of $7 \times 5,000$ have? _____

Mr. Young has 30 times as many pencils as Jack. The whole school has 2,000 times as many pencils as Jack. If Jack has 2 pencils, how many pencils does

14. Mr. Young have? _____

15. the whole school have? _____

Test Prep

16. Find $3 \times 1,000$.

A. 30

B. 300

C. 3,000

D. 30,000

17. **Writing in Math** Wendi says that the product of 5×400 will have 2 zeros. Is she correct? Explain.

Name _____

Estimating Products

P 5-2

Estimate each product.

- | | |
|---|---|
| 1. 7×42 is close to $7 \times$ _____ | 2. 9×511 is close to $9 \times$ _____ |
| 3. 5×79 _____ | 4. 6×32 _____ |
| 5. 4×63 _____ | 6. 8×102 _____ |
| 7. 9×354 _____ | 8. 3×428 _____ |
| 9. 7×493 _____ | 10. 5×814 _____ |
| 11. $2 \times 3,541$ _____ | 12. 8×783 _____ |
| 13. A dog weighs 27 lb. A football player weighs 9 times as much as the dog. About how many pounds does the football player weigh?

_____ | 14. Nyesha has 872 stamps in her stamp collection. Her mother has 8 times as many stamps. About how many stamps does Nyesha's mother have?

_____ |

Test Prep

15. Alma traveled 324 mi to visit her grandmother. Kevin traveled 5 times as far to see his uncle. About how many miles did Kevin travel?
- A. 150 mi B. 1,500 mi C. 6,000 mi D. 15,000 mi
16. **Writing in Math** Lana found the exact answer to 6×623 . Her exact answer was less than her estimate of 3,600. Is Lana's exact answer correct? Explain.

Name _____

Mental Math

P 5-3

Use mental math to find each product.

- | | |
|---------------------------|---------------------------|
| 1. $50 \times 3 =$ _____ | 2. $8 \times 82 =$ _____ |
| 3. $61 \times 5 =$ _____ | 4. $7 \times 29 =$ _____ |
| 5. $33 \times 4 =$ _____ | 6. $27 \times 9 =$ _____ |
| 7. $43 \times 7 =$ _____ | 8. $6 \times 68 =$ _____ |
| 9. $8 \times 92 =$ _____ | 10. $69 \times 3 =$ _____ |
| 11. $2 \times 34 =$ _____ | 12. $71 \times 8 =$ _____ |

13. Suppose an office building is 4 times as tall as a tree that measures 52 ft. How tall is the office building? _____
14. Suppose a baseball stadium is 6 times as wide as an equipment trailer that measures 73 feet. How wide is the baseball stadium? _____
15. **Algebra** In $n \times p = 185$, n is a two-digit number and p is a one-digit number. What numbers do n and p represent?

Test Prep

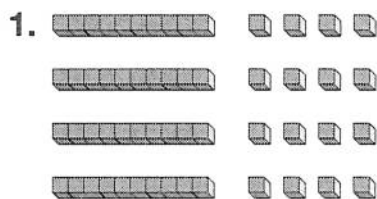
16. Which of the following has a greater product than 29×8 ?
A. 34×5 B. 27×9 C. 38×4 D. 25×9
17. **Writing in Math** Explain how you would find the product of 3×75 by using the break apart method.

Name _____

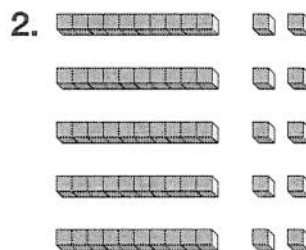
Using Arrays to Multiply

P 5-4

Use the array to find the partial products and the product.
Complete the calculation.



$$\begin{array}{r} 14 \\ \times 4 \\ \hline \square \square \\ \square \square \\ \hline \square \square \end{array}$$



$$\begin{array}{r} 12 \\ \times 5 \\ \hline \square \square \\ \square \square \\ \hline \square \square \end{array}$$

3. $\begin{array}{r} 17 \\ \times 4 \\ \hline \square \square \\ \square \square \\ \hline \square \square \end{array}$

4. $\begin{array}{r} 25 \\ \times 3 \\ \hline \square \square \\ \square \square \\ \hline \square \square \end{array}$

5. $\begin{array}{r} 21 \\ \times 4 \\ \hline \square \\ \square \square \\ \hline \square \square \end{array}$

6. $4 \times 17 =$ _____ 7. $5 \times 24 =$ _____ 8. $3 \times 18 =$ _____

9. $5 \times 29 =$ _____ 10. $23 \times 3 =$ _____ 11. $21 \times 6 =$ _____

12. Clyde planted 4 rows of tomato seeds. Each row has 12 seeds. How many tomato seeds did Clyde plant? _____

Test Prep

13. Find 7×22 .

A. 54

B. 144

C. 152

D. 154

14. **Writing in Math** Write a description of an array of stickers using the product of 3×15 .

Name _____

PROBLEM-SOLVING STRATEGY

P 5-7

Try, Check, and Revise

Use the first try to help you make a second try. Finish solving the problem.

1. Anton put 35 marbles equally into 5 jars. Each jar holds either 5 large marbles or 7 small marbles. What size of marbles did Anton put into the jars?

$$\begin{array}{r} 5 \text{ jars} \\ \times 5 \text{ large marbles} \\ \hline 25 \end{array}$$

That's not enough.

Try, check, and revise to solve each problem. Write the answer in a complete sentence.

2. Lenore earned \$6 per hour and Dora earned \$8 per hour. Lenore and Dora worked the same number of hours. Lenore earned \$54. How much did Dora earn?

3. Thomas read 3 of the books. He read a total of 272 pages. Which of the books did he read?

Book	Pages
<i>Dark Mysteries</i>	87
<i>History of France</i>	146
<i>Superhero Stories</i>	72
<i>Artists to Know</i>	113

4. Heather read 2 of the books. She also read a music book with 211 pages. She read a total of 429 pages. Which of the books did she read?

Name _____

Choose a Computation Method

P 5-8

Find each product. Tell what computation method you used.

1.
$$\begin{array}{r} 4,701 \\ \times 6 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 8,644 \\ \times 5 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 4,698 \\ \times 8 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 9,204 \\ \times 3 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 5,920 \\ \times 4 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 6,114 \\ \times 7 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 7,100 \\ \times 4 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 4,923 \\ \times 9 \\ \hline \end{array}$$

9. Mervin's Market sells about 1,250 lb of apples in 1 year. How many pounds of apples will Mervin's Market sell in 4 years?

10. The airline flies 8,112 mi in 1 day. How many miles does the airline fly in 6 days?

Test Prep

11. A theme park has 6 parking lots. If each of the parking lots holds 1,100 cars, how many total cars can park?

A. 6,000 cars B. 6,100 cars C. 6,500 cars D. 6,600 cars

12. **Writing in Math** Which method would you use to find $4,202 \times 8$? Explain.

Name _____

Multiplying Money

P 5-9

Find each product.

1. $\begin{array}{r} \$2.48 \\ \times \quad 8 \\ \hline \end{array}$

2. $\begin{array}{r} \$3.82 \\ \times \quad 5 \\ \hline \end{array}$

3. $\begin{array}{r} \$45.86 \\ \times \quad 6 \\ \hline \end{array}$

4. $\begin{array}{r} \$22.72 \\ \times \quad 7 \\ \hline \end{array}$

5. $4 \times \$8.23 =$ _____

6. $7 \times \$31.14 =$ _____

7. $9 \times \$25.88 =$ _____

8. $\$43.86 \times 6 =$ _____

Find each cost.

9. 5 boxes of modeling clay

10. 6 boxes of colored pencils

11. 4 boxes of beads

12. 7 boxes of origami paper

Arts-N-Crafts	
Item	Price per Box
Beads	\$3.29
Modeling clay	\$4.32
Origami paper	\$7.91
Colored pencils	\$2.05

Test Prep

13. Nemo wants to buy calendars for his family. Each calendar costs \$5.62. How much money do 5 calendars cost?

A. \$25.10

B. \$28.00

C. \$28.10

D. \$30.10

14. **Writing in Math** At a local restaurant, a turkey sandwich costs \$6.50. An apple juice costs \$1.25. Would \$15.00 be enough to buy 2 sandwiches and 2 juices? Explain.

Name _____

Multiplying Three Factors

P 5-10

1. $2 \times 4 \times 9$

2. $9 \times 8 \times 3$

3. $4 \times 4 \times 10$

4. $6 \times 50 \times 2$

5. $8 \times 60 \times 5$

6. $20 \times 7 \times 3$

7. $2 \times 600 \times 5$

8. $80 \times 6 \times 2$

9. $4 \times 70 \times 4$

10. Show three ways to find $40 \times 2 \times 5$.

11. How many building blocks did Travis use to build his city?

Travis' Building Blocks
1 toy city = 4 buildings
1 building = 4 sides
1 side = 20 blocks

Test Prep

12. How many apples would you have altogether if you have 5 apples in each of 3 bowls on each of 4 tables?

A. 60 apples B. 72 apples C. 81 apples D. 100 apples

13. **Writing in Math** What is the cost of a truckload of sand if there are 25 bags per truckload, 10 lb of sand per bag, and each pound of sand costs \$2? Show two different ways to solve the problem.

Name _____

PROBLEM-SOLVING SKILL

P 5-11

Choose an Operation

Draw a picture to show the main idea. Then choose an operation and solve the problem.

1. A sack of potatoes weighs 20 lb and holds 200 potatoes. A sack of apples weighs 20 lb and holds 325 apples. How many more apples are there in a 20 lb sack?

2. Shawna has 35 football cards and 5 times as many baseball cards in her sports-card collection. How many baseball cards does she have?

3. A pound of peaches costs \$1.29. How much does 4 lb of peaches cost?

4. The first modern electronic computer, called ENIAC, was introduced in 1946. Personal home computers were not available until 28 years later. In what year were personal home computers introduced?

Name _____

PROBLEM-SOLVING APPLICATIONS

P 5-12

Paper Problems

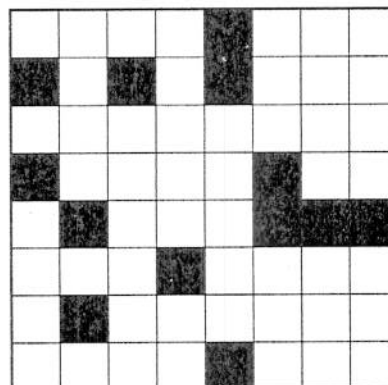
The business section of Caitlin's newspaper lists the performances of many stocks. There are 14 stocks listed in every 1 in. of the stock report.

1. How many stocks are listed in 6 in. of the stock report?

2. In 1 ft of the stock report, there are 168 stocks listed. How many stocks are listed in 5 ft of stock reports?

The lifestyle section of Caitlin's newspaper has a daily crossword puzzle. The puzzle has 8 rows and 8 columns.

3. How many total spaces are in the crossword puzzle?



4. There are 13 blocked (or black) spaces where you cannot write a letter. In how many spaces can you write a letter?

5. Suppose in 1 day you bought 3 copies of the newspaper for \$0.50 each. How much would it cost to do this for 6 days?
