

Name _____ Date _____

**Skills Maintenance****Basic and Extended Multiplication Facts****Activity 1**

Solve the basic and extended multiplication facts.

1. $4 \cdot 6 = \underline{\quad}$

2. $40 \cdot 6 = \underline{\quad}$

3. $\underline{\quad} \cdot 3 = 24$

4. $30 \cdot \underline{\quad} = 240$

5. $70 \cdot 8 = \underline{\quad}$

6. $7 \cdot 8 = \underline{\quad}$

7. $5 \cdot \underline{\quad} = 20$

8. $\underline{\quad} \cdot 50 = 200$

9. $\underline{\quad} \cdot 9 = 630$

10. $9 \cdot \underline{\quad} = 63$

11. $\underline{\quad} \cdot 8 = 32$

12. $80 \cdot \underline{\quad} = 320$

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Apply Skills Understanding Variables

Activity 1

Solve the multiplication facts. The missing part has been replaced with a variable. Write the answer above the variable.

1. $4 \cdot 7 = m$ 2. $x \cdot 6 = 30$ 3. $y \cdot 4 = 20$ 4. $8 \cdot s = 32$

5. $7 \cdot t = 35$ 6. $z \cdot 8 = 56$ 7. $5 \cdot 5 = k$ 8. $b \cdot 9 = 18$

Activity 2

Look at the three statements in each problem and analyze the pattern. Circle the part(s) of each statement that stay the same. Put a box around the parts that change. Replace the parts that change (the boxed numbers) with a variable and write a general statement about the pattern.

Model

$$\boxed{8} \cdot \textcircled{0} = \textcircled{0} \quad \boxed{2.5} \cdot \textcircled{0} = \textcircled{0} \quad \boxed{17\frac{1}{2}} \cdot \textcircled{0} = \textcircled{0}$$

General Pattern $\underline{\quad m \quad} \cdot 0 = 0$

1. $1 \cdot 7 = 7$

$1 \cdot 75.8 = 75.8$

$1 \cdot \frac{1}{4} = \frac{1}{4}$

General Pattern _____

2. $5 + 0 = 5$

$25 + 0 = 25$

$\frac{1}{2} + 0 = \frac{1}{2}$

General Pattern _____

3. $4 \div 4 = 1$

$\frac{1}{4} \div \frac{1}{4} = 1$

$234.9 \div 234.9 = 1$

General Pattern _____

4. $150 - 150 = 0$

$227.9 - 227.9 = 0$

$\frac{3}{5} - \frac{3}{5} = 0$

General Pattern _____

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 **Problem-Solving Activity**
Strategies for Solving Problems

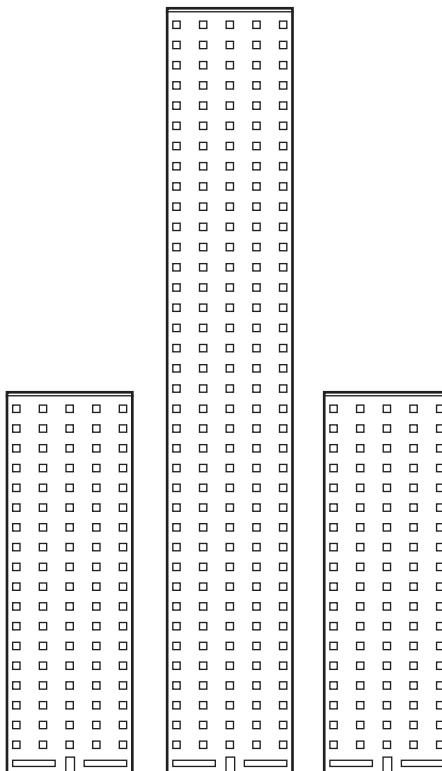
Tell what strategy you use to solve the problem, then solve.

1. An architect is drawing a blueprint picture of a house. She makes a square for the body of the house that is 81 square feet. There is a rectangle for the door that is 12 square feet. There is also a triangle for the roof that has a base of 9 and an area of 13.5. Find the height of the triangle.

What is the best method of solving this problem?

2. The developers of an apartment complex in downtown Pittsburgh want people to notice their buildings from a distance. They designed the buildings to follow a pattern. There will be five apartment buildings. The first three buildings have been built. Draw rectangles to show how tall the two remaining buildings will be.

What is the best method of solving this problem?



Building A Building B Building C Building D Building E

Unit 2

 **Reinforce Understanding**
Use the mBook *Study Guide* to review lesson concepts.