

Name \_\_\_\_\_ Date \_\_\_\_\_

**Skills Maintenance****Equations With Coefficients****Activity 1**

Solve the problems with coefficients by using properties of equality and reciprocals.

1.  $6a = 42$  \_\_\_\_\_

2.  $7b = 49$  \_\_\_\_\_

3.  $8c = 56$  \_\_\_\_\_

4.  $9d = 81$  \_\_\_\_\_

**Activity 2**

Find the missing integer to complete the equation.

1.  $-6 \cdot -9 =$  \_\_\_\_\_

2.  $-27 = -3 \cdot$  \_\_\_\_\_

3. \_\_\_\_\_  $+ -12 = -13$

4.  $17 -$  \_\_\_\_\_  $= 27$

5.  $56 \div -8 =$  \_\_\_\_\_

6.  $-100 +$  \_\_\_\_\_  $= -150$



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 **Apply Skills**  
Equations With Negative Numbers

**Activity 1**

Solve the equations involving negative variables and/or number terms.  
Be sure to check your answer when you are finished using substitution.

1.  $-5 - x + 5 + 5x = 12$  \_\_\_\_\_

Show your work here:

Check your answer here: \_\_\_\_\_

2.  $x - 2 + -4 = -5$  \_\_\_\_\_

Show your work here:

Check your answer here: \_\_\_\_\_

3.  $-10 + x - -5 = 10$  \_\_\_\_\_

Show your work here:

Check your answer here: \_\_\_\_\_

4.  $3x - 4 - -4 + 2x = -15$  \_\_\_\_\_

Show your work here:

Check your answer here: \_\_\_\_\_

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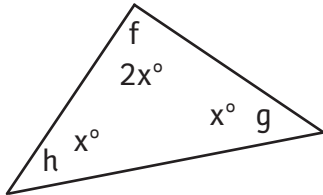


**Problem-Solving Activity**  
**Missing Angles in Triangles**

Use what you know about the measures of common angles to solve the problems. Write algebraic equations to find each solution and be sure to show your work. Think about each problem before you try to solve it. Some problems require different strategies.

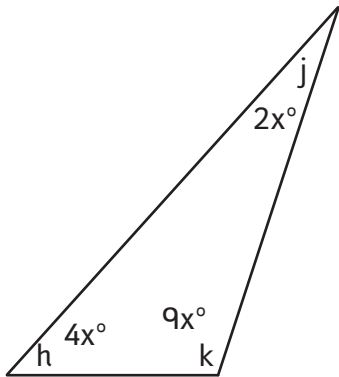
1. What are the measurements of  $\angle f$ ,  $\angle g$  and  $\angle h$ ?

\_\_\_\_\_



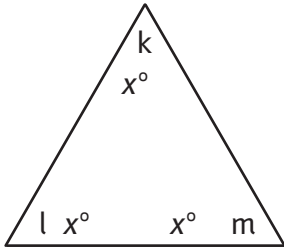
2. What are the measurements of  $\angle h$ ,  $\angle j$ , and  $\angle k$ ?

\_\_\_\_\_

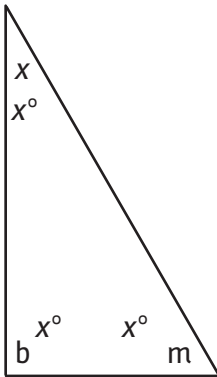


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3. What are the measurements of  $\angle k$ ,  $\angle l$ , and  $\angle m$ ?



4. What are the measurements of  $\angle b$ ,  $\angle m$ , and  $\angle x$ ?



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