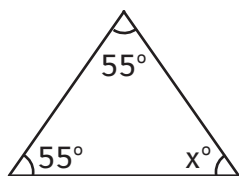Name _____ Date _____

Skills Maintenance
Finding the Missing Angle

Activity 1

Make algebraic expressions to find the missing angle in each of the triangles. Remember the sum of the interior angles of a triangle is 180 degrees.
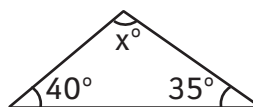
1.

55°

55°   x°

Write your equation here:

_____

Show your work here:

The missing angle, *x*, has a measurement of _____

2.

x°

40°   35°

Write your equation here:

_____

Show your work here:

The missing angle, *x*, has a measurement of _____

Simple Equations

Activity 2

Find the missing number to complete the equations.

1. $\frac{1}{3} \cdot 3 =$ _____

2. $3 \cdot$ _____ $= 1$

3. _____ $\cdot \frac{1}{3} = 1$

4. $\frac{2}{3} \cdot \frac{3}{2} =$ _____

5. $\frac{3}{2}$ _____ $= 1$

6. _____ $\cdot \frac{2}{3} = 1$

Name _____ Date _____

Apply Skills
More Equations With Coefficients

Activity 1

Set up each problem as a proportion. Then use the cross-multiplying strategy to solve the problems. Be sure to show all of your work.

1. Johnson's Furniture Store gets deliveries of new sofas every month. The delivery truck carries 10 sofas. This month Johnson is having a big sale, so 3 delivery trucks will be coming to the store. How many sofas will they deliver?

   _____

2. There are 10 shelves of shoes in the back room of The Sports Center. Each shelf has the same number of shoes. There are 80 shoes on the 10 shelves. How many shoes are on one shelf?

   _____

3. Carmen is playing wheelchair basketball. You have to stay in the wheelchair the whole time you play the game. Carmen can roll her wheelchair down the court 12 feet in 2 seconds. How far can she go in 6 seconds?

   _____

4. The cost of gasoline is hitting record prices. It costs $4 for a gallon of gas during the summer when everyone wants to travel. How much will it cost to buy 15 gallons of gas?

   _____

5. Ramon's Music Store will buy used CDs from you at the price of 3 CDs for $10. You want to sell the store 12 CDs. What will they pay you?
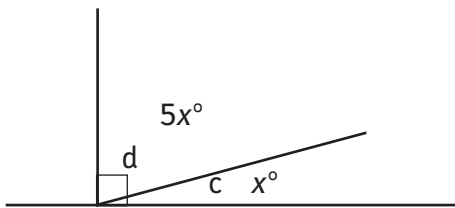
   _____

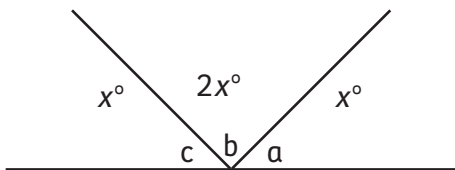Name _____ Date _____

Problem-Solving Activity
Finding the Measure of Two Angles

Write algebraic expressions to find the missing measures of the angles.

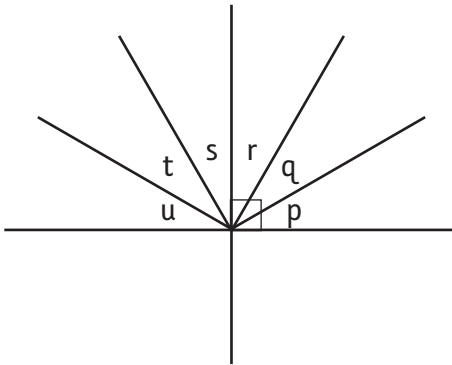**1.** What is the measure of each angle? _____

2. What is the measure of each angle? _____

3. All of the angles below measure $x°$. What is the measure of each angle?

_____

4. What is the measure of $\angle$j ? _____

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

Unit 7 • Lesson 6   **255**