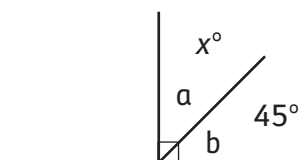Name _____   Date _____

Skills Maintenance
Finding the Missing Angles
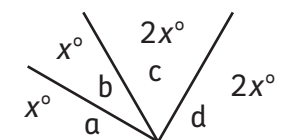
Activity 1

Find the missing angle measures.

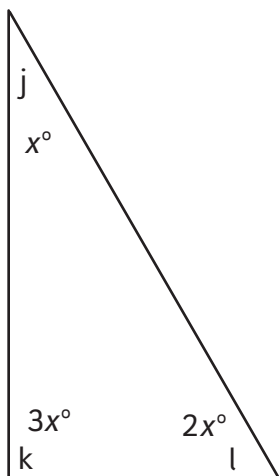**1.** What is the measurement of ∠a? _____

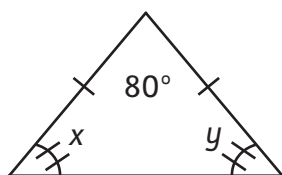
2. What is the measurement of ∠c? _____

3. What are the measurements of ∠j and ∠k?

j: _____   k: _____

4. What are the measurements of ∠x and ∠y?

x: _____   y: _____

Name _____ Date _____

Unit Review
Introduction to Algebraic Expressions

Activity 1

Solve the problems by making sure each side of the equation is balanced. Be sure to show your work.

1. $x + 10 = 23 + 9$ _____

2. $3 + b - 8 = 15$ _____

3. $-4 + c + -6 = -20$ _____

4. $3 \cdot 5 + s = 4 \cdot 2 + 16$ _____

5. $4d = 60$ _____

6. $-3f = 15$ _____

7. $-5x = -20$ _____

8. $4v = 28 - 4 + 8$ _____

Activity 2

Solve the word problems using algebra. Be sure to show all of your work.

1. A recipe for cake calls for 2 cups of flour and 4 eggs. You want to make a cake that uses 12 eggs. How much flour should you use?

   _____

2. Your teacher is passing out tests and pencils for an exam. She wants there to be 3 pencils for every 1 exam. If she passes out 98 tests, how many pencils does she need?

   _____

3. Katie and Ali and running to see who can get to their car first. Katie runs the 500 meters in 20 seconds. If Ali gets there twice as fast, how many seconds will it take her?

   _____

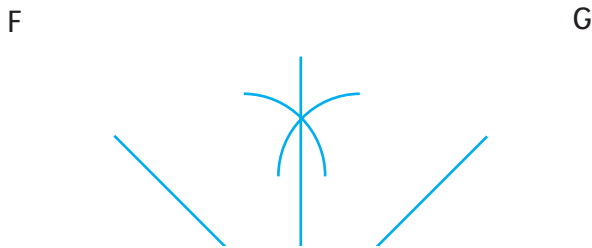Name _____ Date _____

Unit Review
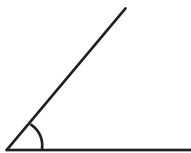**Geometric Construction and Angle Measurement**

Activity 1

Use a compass and a ruler to construct a perpendicular line, then bisect the angle.

1.   Use line segment FG to create a perpendicular line segment.

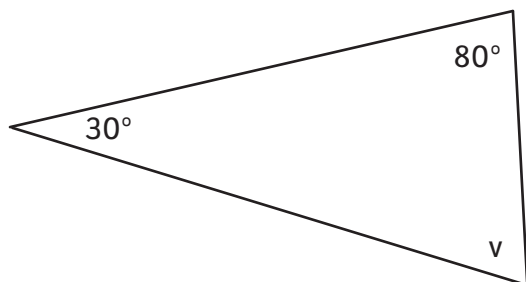F   G

2.   Bisect this angle.
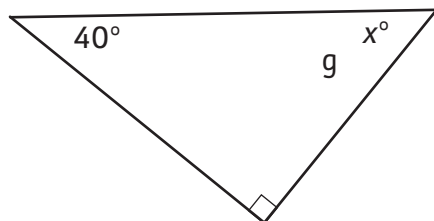
Name _____ Date _____

Activity 2

Use this information and your knowledge of properties of angles to find the missing angle in each problem. Answer the problem using an algebraic equation. Show all of your work.
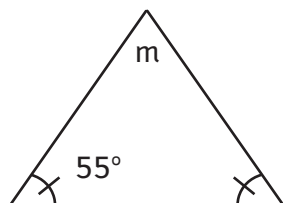
1. What is the measure of ∠v? _____

80°

30°

v

Show your work here:

2. What is the measure of ∠g? _____

40°   x°
        g

Show your work here:

3. What is the measure of ∠m? _____

m

55°

Show your work here:

4. What is the measure of ∠t? _____

```
        t
         45°
  35°      x°        45°
```
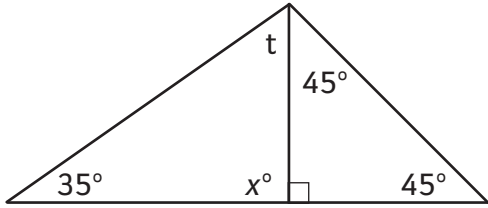
5. What is the measure of ∠z? _____

```
    30°
60°


        x°  z
```
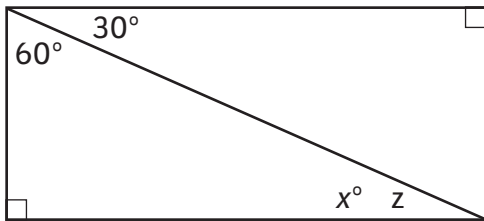
6. What is the measure of ∠f? What is the measure of ∠g?

f _____   g _____

```
        3x°
  x°
     f  g
```

Unit 7