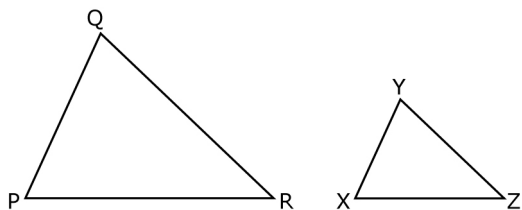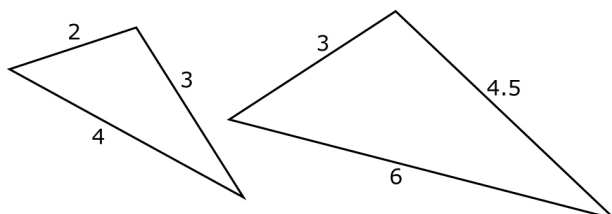# Chapter 6 Warm-Up

Section 6.1 Warm-Up
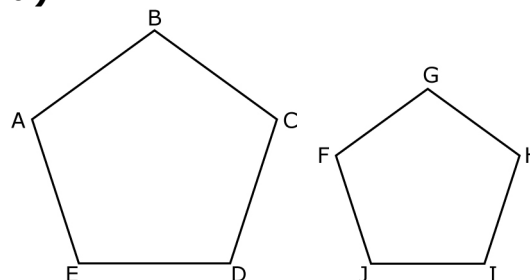
1. Plot each point on a grid.
   a) A(4, −2)
   b) B(3, 3)
   c) C(−4, 1)
   d) D(−2, −5)

2. In which quadrant is (−3, 1) located?

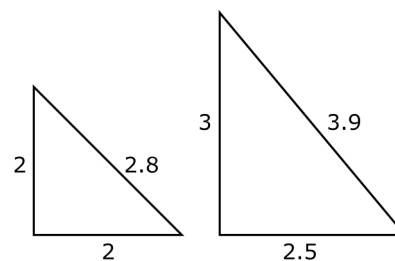3. List the corresponding angles and corresponding sides for △PQR and △XYZ.

4. Does the pair of triangles have proportional corresponding sides? Explain how you know.

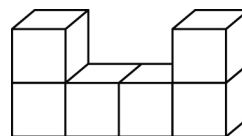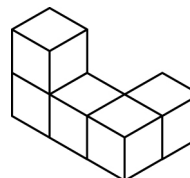5. Are the figures similar? Use a ruler and a protractor to help you. Explain how you know.
   a)

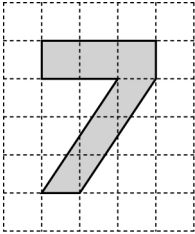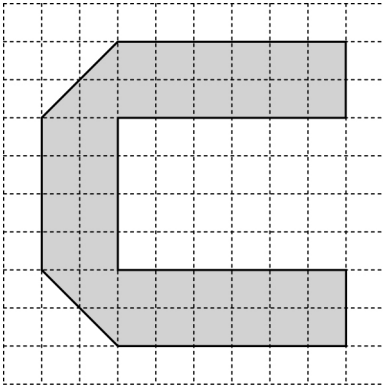   b)

6. Draw each figure on isometric dot paper.
   a)

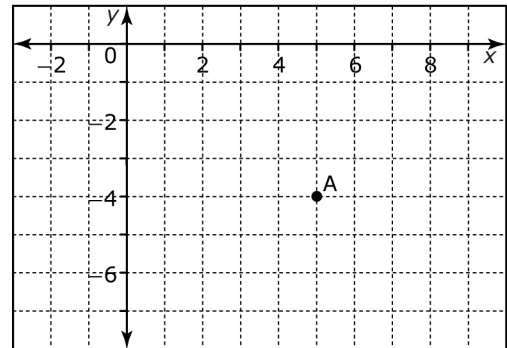

   b)

Section 6.2 Warm-Up

1. Enlarge the figure using a scale factor of 2.

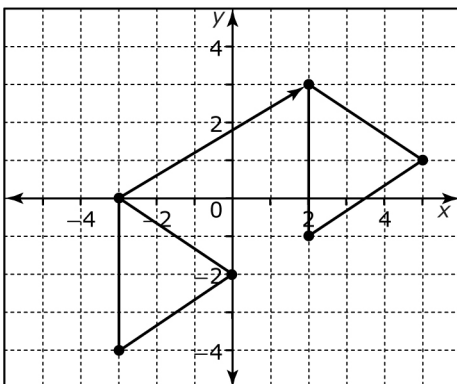**2.** Reduce the figure using a scale factor of $\frac{1}{2}$.

3. A kitchen plan has a 30" wide stove measuring 2" on the plan. What scale factor is used?

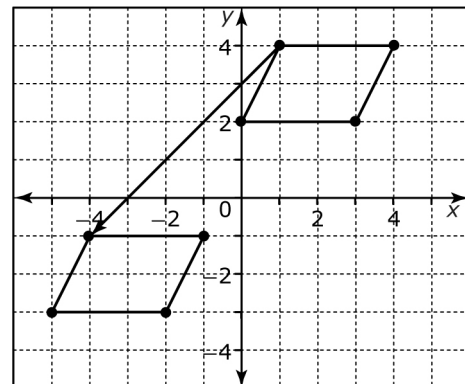**4.** Translate point A 3 spaces left and 2 spaces up. Label the new point A'.

Section 6.3 Warm-Up

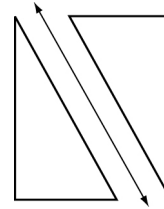**1.** Describe the translation shown in each diagram.
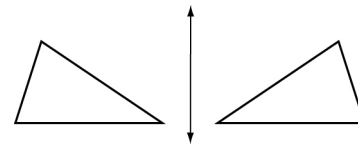
a)

b)

2. Plot point B(3, 5) on a coordinate grid. Then, translate it 1 unit left and 4 units down. Label it B'.

3. Plot point C(−2, 4) on a coordinate grid. Then, translate it 2 units right and 2 units down. Perform the translation three times.

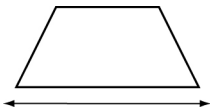**4.** Does each transformation represent a reflection? How do you know?
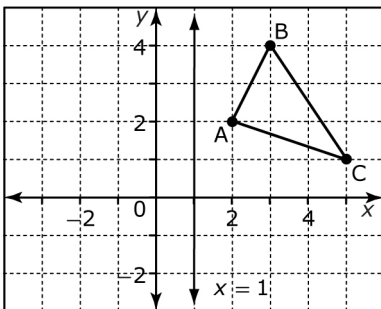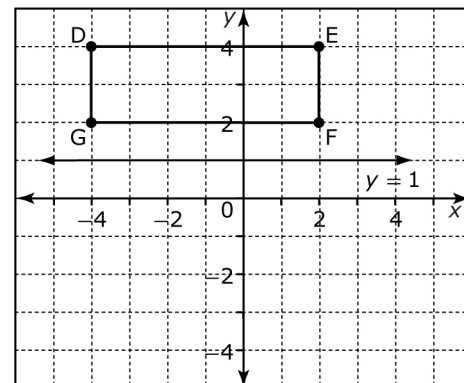
a)

b)

Section 6.4 Warm-Up

1. Reflect the shape over the line of reflection.

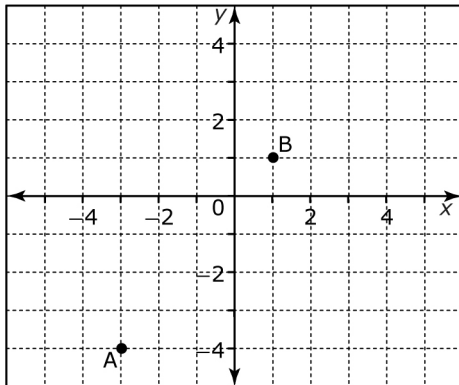**2.** Reflect the shape over line of reflection x = 1.

3. Reflect the rectangle over y = 1. Then, translate the reflected image 2 units right.

4. Placing the metal tip of a compass on the origin, draw an arc from each point in the direction indicated.
Point A: clockwise
Point B: counterclockwise

5. Use a protractor to draw each angle.
   a) 90°
   b) 270°
   c) 45°
   d) 180°