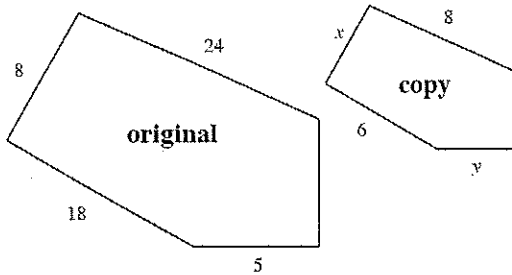


Chapter 6 Review

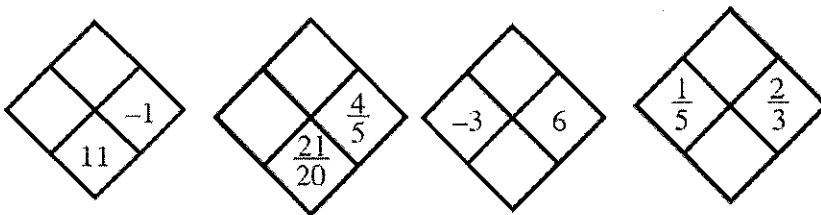
1. The shapes below are similar. What is the scale factor?

What are the lengths of the missing sides?



2. Solve this problem by using the 5-D Process or writing and solving an equation. No matter which method you use helpful. Be, be sure to define your variable and write an equation to represent the relationship.

A triangle has a perimeter of 30 cm. The length of one side is three times the length of the shortest side, and the length of the other side is 5 cm longer than the shortest side. What are the lengths of all three sides?



3.

4. Solve for x .

Check your solution.

$$2(2x + 4) = 20$$

5. Represent the solution for the variable described below as an inequality on a number line graph and with symbols.

My son wants to ride the roller coaster at Oaks Park. In order to do so, he must be at least 40 pounds but no more than 90 pounds to ride the roller coaster.

Inequality:

Number line graph:

6. Cecil walked 30 feet across a tight rope. He then went back and walked the tightrope again, but this time he jumped. Each jump was "x" feet. He made 4 jumps, and then he walked the last 10 feet.

Write an equation that represents his jumps in terms of "x."

Solve for x. How far was each jump?