

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Per: \_\_\_\_\_

Lesson 6.2.4 Homework

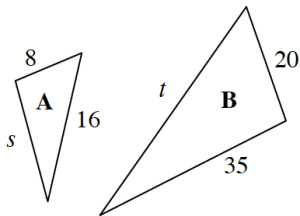
**6-97.** For the end-of-year party, Mt. Rose Middle School ordered 112 pizzas. There were eight fewer veggie pizzas than there were pepperoni pizzas. There were three times as many combo pizzas as pepperoni pizzas. Use the 5-D Process to define a variable and write an equation for this situation. Then determine how many of each kind of pizza were ordered.

**6-98.** Consider the equation  $7 = 3x - 5$ .

a. Stanley wants to start solving the equation by adding 5 to both sides, while Terrence first wants to subtract 7 from both sides. Will both strategies work? Is one strategy more efficient than the other?

b. Solve  $7 = 3x - 5$ . Show your steps.

**6-99.** The two triangles at right are similar shapes.

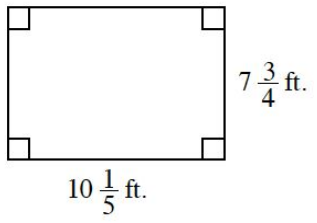


a. What is the scale factor from shape A to shape B?

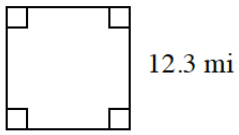
b. Find the missing side lengths.

c. If you wanted to make shape A smaller instead of bigger, what is a scale factor you could use?

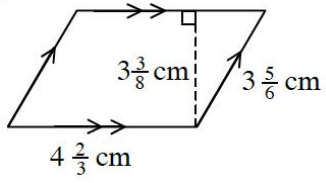
6-100. Find the area and perimeter of the following figures.



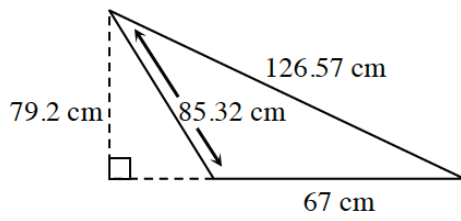
a.



b.



c.



d.