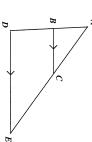
Geometry Intro to 11.7

Name_ Date_

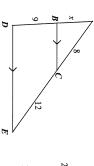
Period_

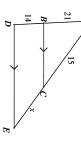
1. a. Sketch $\triangle ABC$ and $\triangle ADE$ separately and mark any congruent angles

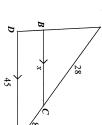


b. Which conjecture can be used to show that $\triangle ABC \sim \triangle ADE$?

Redraw the pair of similar triangles, label the sides, and write a proportion to solve for the variable. 2. $\frac{A}{2}$ 4. $\frac{A}{2}$







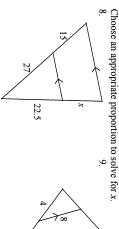
Using values from #2, simplify each ratio:

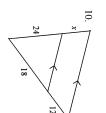
why not. in #5 to solve #3? Show why or 6. Can you use the property found

7. Can you use the property found in #5 to solve #4? Show why or why not.

 $\frac{AB}{BD}$ $\frac{AC}{CE}$

What do you notice?



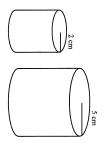


- The following are similar cylindrical vegetable cans. Find each of the following.
 The ratio of the sides
 The ratio of the surface areas
 The ratio
- c. The ratio of the volumes
- If the height of the small can is 10 cm, find the height of the large can





f. If the volume of the small can is 50 cm³, find the volume of the large can

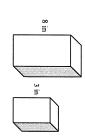


The following are similar rectangular packing boxes. Find each of the following.
 The ratio of the sides
 The ratio of the surface areas
 The ratio

c. The ratio of the volumes

- d. If the large box holds 20 in³ of packing, how much packing does the small box hold?





- f. If the small box has a top area of 80 in², what is the top area of the large
- 13. Two similar punch bowls have a scale factor of 3:4. The amount of lemonade to be added is proportional to the volume. How much lemonade does the smaller bowl require if the larger bowl requires 64 fluid ounces?