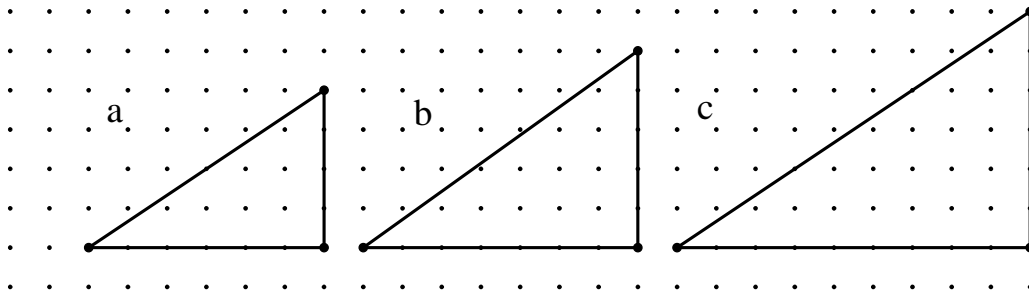Similar shapes assignment 1   name:_____
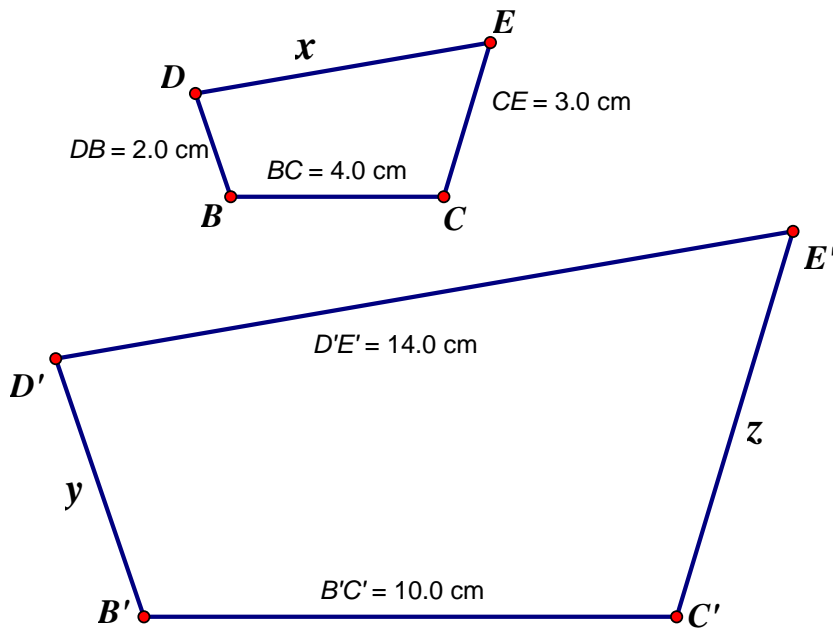
1. Are all of these triangle similar? Are any of these triangles similar? Tell how you know:

a.   b.   c.

2. The length of a rectangle is 45 inches and the width is 8 inches. A similar rectangle has a width of 24 inches. What is the perimeter of the second rectangle?

3. These two shapes are similar. Find the missing side lengths.

E

x

D

$CE = 3.0$ cm

$DB = 2.0$ cm

$BC = 4.0$ cm

B   C

E'

$D'E' = 14.0$ cm

D'

z

y

$B'C' = 10.0$ cm

B'   C'

4. Make at least two measurements of something. On the back of the page, make a scale drawing of it. Label your drawing with the lengths you measured. Use a ruler to make your drawing to scale.