

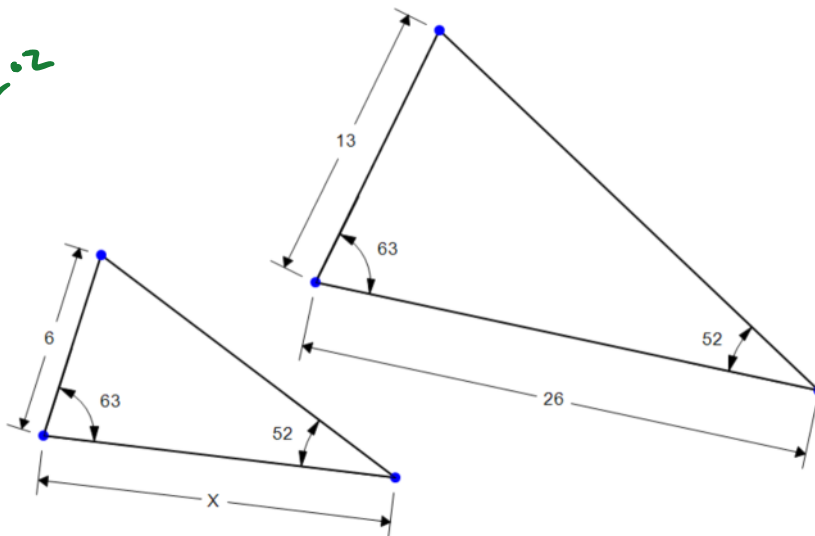
Topic 7 Quiz Review

Monday, September 23, 2019 7:46 AM

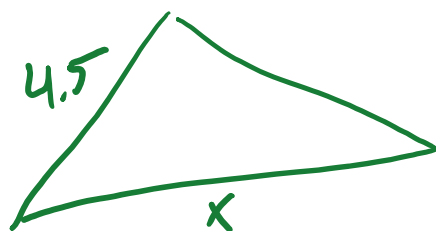
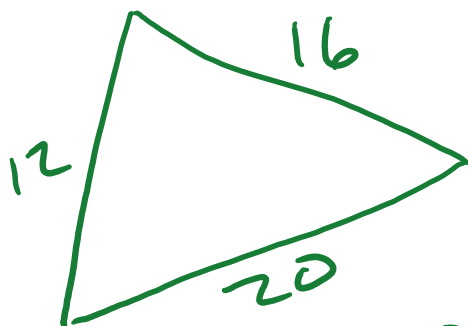
6 total questions

The following triangles are similar. Find the measure of x.

2. $\frac{6}{x} = \frac{13}{26} \rightarrow 2$
 $x = 12$



The lengths of the first triangle are 12, 16, and 20. The shortest side of a similar triangle is 4.5. What is the length of the longest side in the similar triangle?



$\frac{12}{20} = \frac{4.5}{x}$
 $\frac{x}{20} = \frac{4.5}{12}$
 $x = \frac{4.5 \cdot 20}{12} = \frac{90}{12} = 7.5$

In two similar triangles the larger of the two triangles has a side length of 24 and the correlating side in the smaller is 16. If the perimeter of the larger is 36 what is the perimeter of the smaller?

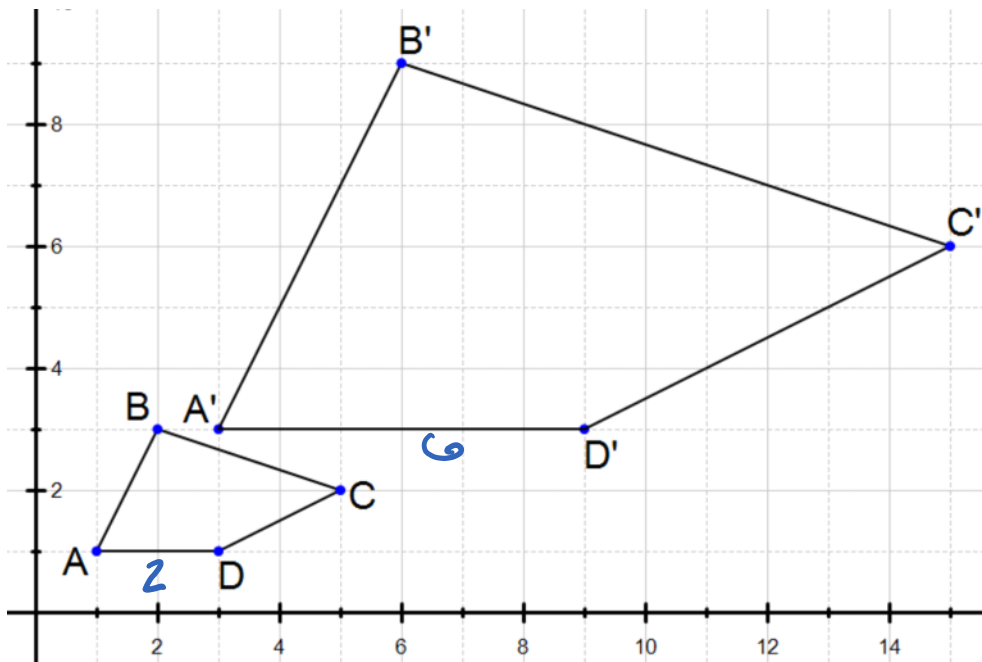
$$\frac{24}{36} = \frac{16}{x}$$

$$\frac{16}{24} = \frac{x}{36}$$

$$\frac{1}{2} = \frac{x}{36}$$

$$x = 24$$

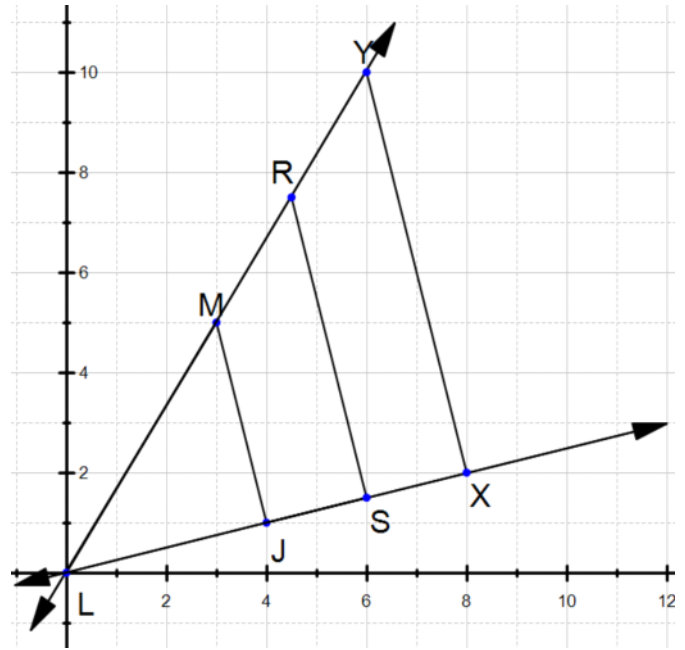
What is the scale factor shown in the graph?



3:1
 $k=3$
Since the image
is 3 times
larger.

Which of the following must be true about the scale factor, k , and the dilations?

- A. If $k > 1$ then RS is the image of YX.
- B. If $k < 1$ then RS is the image of MJ.
- C. If $0 < k < 1$ then RS is the image of YX.
- D. If $k = 1.5$ then YX is the image of RS.



Find the vertices of the shape after the following transformation and draw the image on the graph.

$$(D_{1.5} \circ T_{\langle 2, -2 \rangle})(QRST)$$

