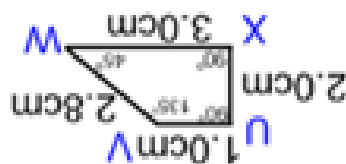
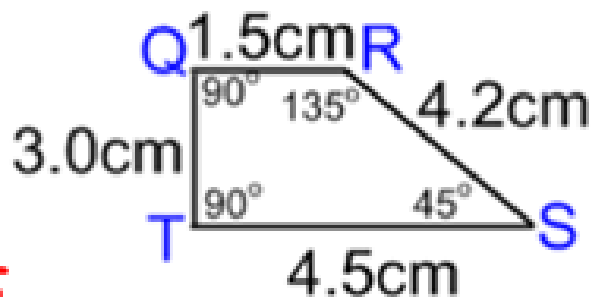


Similar = Same shape but different size

(enlarged or reduced)

B/n = Between

Similar Polygons: Matching angles are equal AND Matching sides are proportional (they all relate with the same scale factor)



Between 90 and 135

~~1.5/3.0 = 0.5~~  
~~B/n 90 and 90~~  
~~1.5/3.0 = 0.5~~

$\frac{1.5}{3.0} = 0.5$

~~1.5/3.0 = 0.5~~

$\frac{1.5}{3.0} = 0.5$

Diagonal =  $\frac{2.8}{4.2} = 0.67$

~~1.5/3.0 = 0.5~~  
 B/n 90 and 45  
 $\frac{1.5}{3.0} = 0.5$

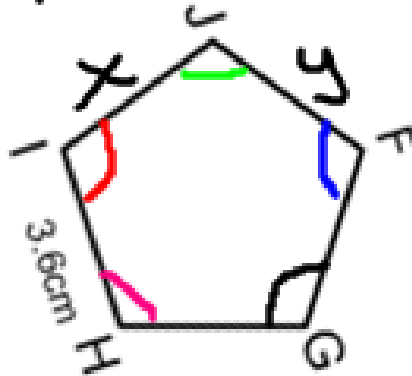
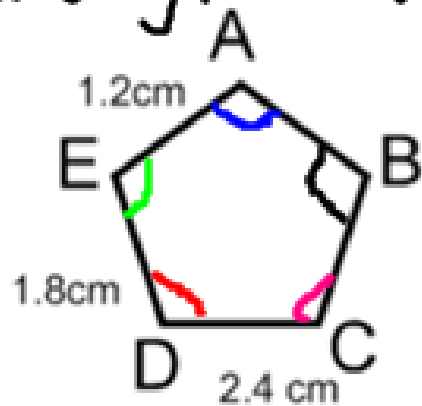
All angles equal

AND

All sides compare with same scale factor

So yes they are similar

The following figures are similar. Determine the length of JI and JF  
colored angles are equal



$$\frac{3.6}{2.4} = 1.5 \text{ (Scale factor)}$$

$$1.8 \times 1.5 = x$$

$$1.2 \times 1.5 = y$$

Finding the height of trees, buildings, etc using shadows

Practice P. 341 - 342 # 4,5,6,7, 9,10, 13(graph paper)