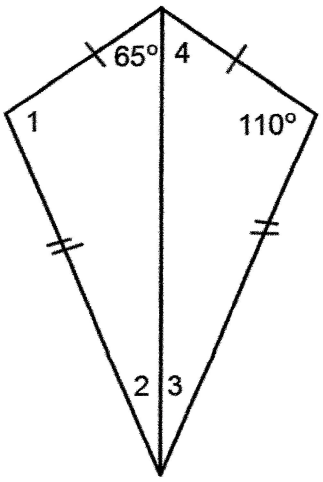
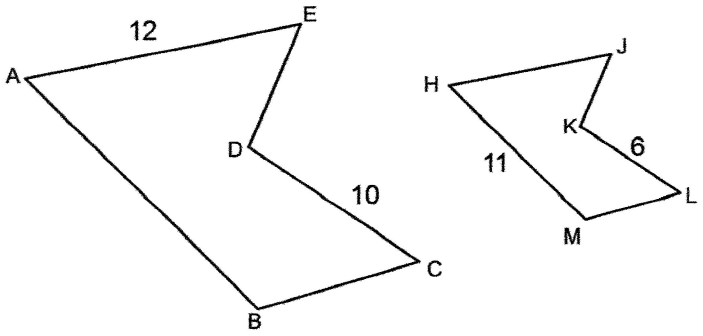
Bellwork Geo Thursday, May 7, 2020

1. Find the measures of the numbered angles in this Kite.



$m\angle 1 =$ $m\angle 2 =$ $m\angle 3 =$ $m\angle 4 =$

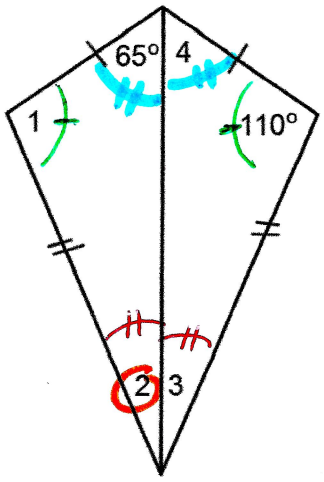
2. The figures shown are similar. If the area of the larger figure is 96 in^2 find the area of the smaller figure to the nearest hundredth.



Bellwork Geo Thursday, May 7, 2020

ANSWERS

1. Find the measures of the numbered angles in this Kite.

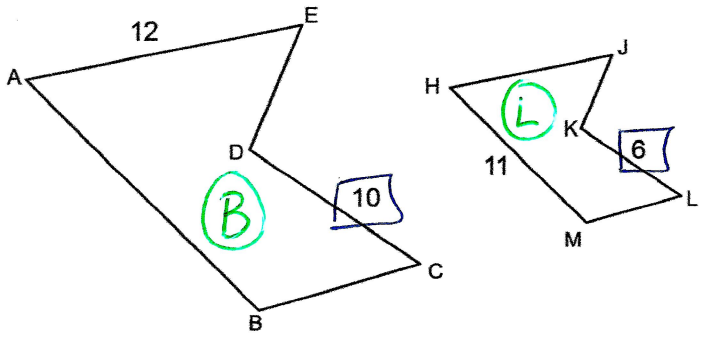


$m\angle 1 = 110^\circ$ $m\angle 2 = 5^\circ$ $m\angle 3 = 5^\circ$ $m\angle 4 = 65^\circ$

$\angle 2 = 180 - 110 - 65$

$= 5$

2. The figures shown are similar. If the area of the larger figure is 96 in^2 find the area of the smaller figure to the nearest hundredth.



SIMILARITY RATIO : $\frac{L}{B} = \frac{6}{10}$

RATIO of Areas = (Sim Ratio)^2

$\frac{L}{B}$ $\frac{X}{96 m^2} = \left(\frac{6}{10}\right)^2$

$\frac{X}{96} = \frac{36}{100}$

Area of smaller figure $= 34.56 \text{ in}^2$