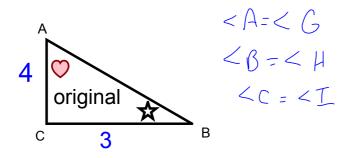
Similar Polygons Chp 7

*Scale Factor= length of enlargement/reduction actual size [original]



List the corresponding angles
 Ratio of corresponding sides

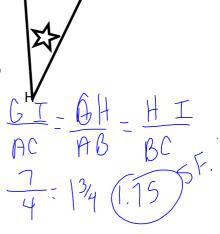
3) find the scale factor.

4) Find side HI?

$$\frac{HI}{BC} = \frac{GI}{AC}$$

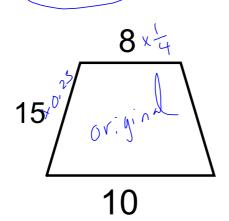
$$\frac{AC}{AC} = \frac{2/3}{4}$$

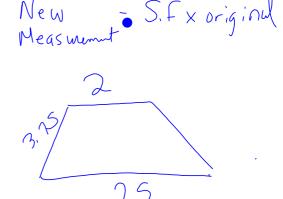
$$HI = 5.25$$



A. Sketch a diagram that is 1/4 the size of the original

B. Is this a reduction or enlargement?

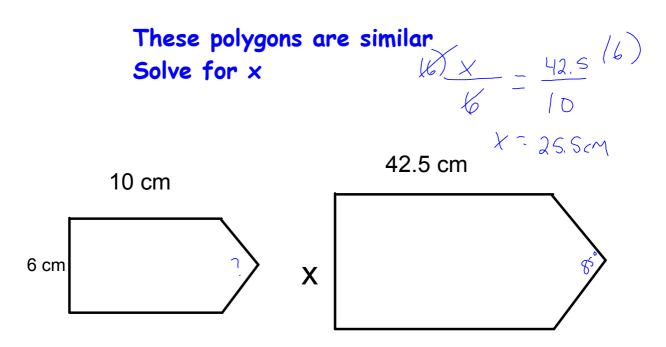




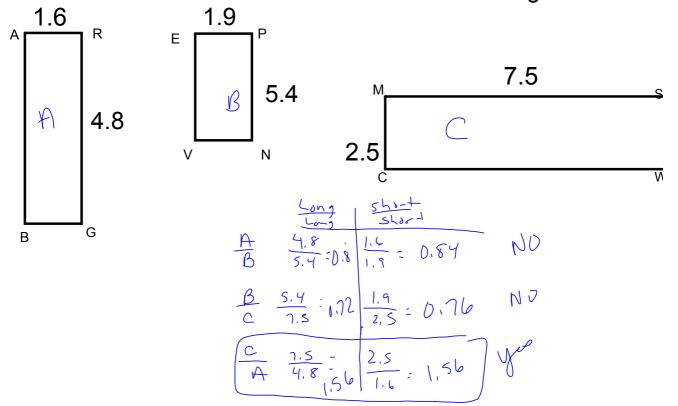
Scale:
$$\frac{long}{long} = \frac{short}{short}$$

$$\frac{l.S}{60} = \frac{0.65}{26}$$

$$0.025 = 0.025$$



Are these Rectangles similar?



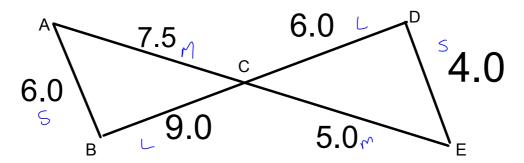
Similar Triangles

Triangles are a special polygon.

1. The measures of corresponding angles must be equal

OR

2. The ratios of the lengths of corresponding sides must be equal



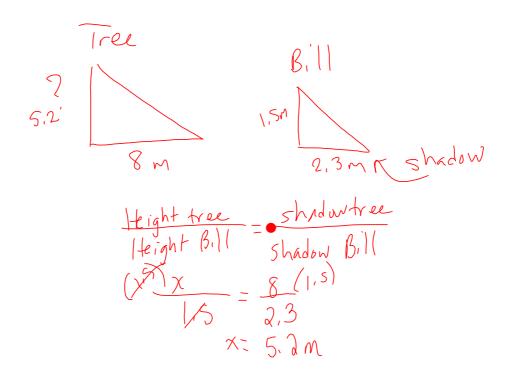
Ratio of corresponding sides

Scale factor?

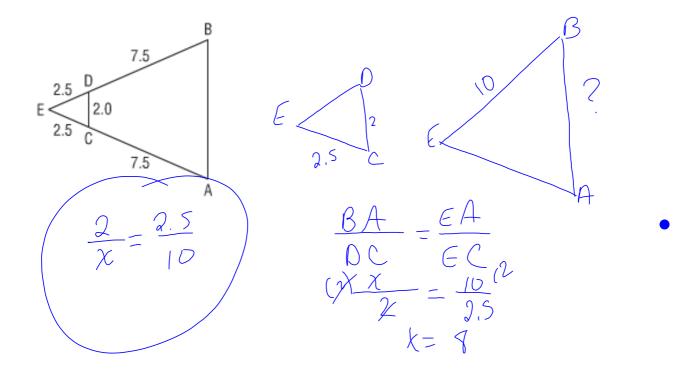
$$\frac{6}{4} = \frac{7.5}{5} = \frac{9}{6}$$

$$1.5 = 1.5 = 1.5$$

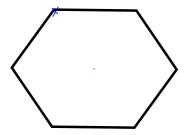
Bill is 1.5 m tall. His shadow is 2.3 m long. He is standing beside a tree that has a shadow that is 8 m long. How tall is the tree? Sketch a diagram

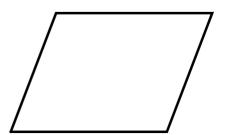


Solve for BA



Lines of Symmetry



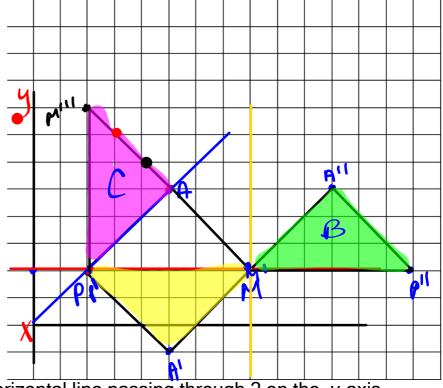


Plot the points:

P (2, 2)

A (5, 5)

M (8, 2)



Reflect ΔPAM in the horizontal line passing through 2 on the y-axis.

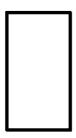
- b) Reflect $\triangle PAM$ in the vertical line passing through 8 on the x-axis.
- c) Reflect $\triangle PAM$ in the oblique line passing through the points (2, 2) and (5, 5).

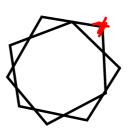
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Rotational Symmetry

- The number of times a shape coincides with itself, during rotation of 360, ORDER OF ROTATION!
- ANGLE OF ROTATION -- 360 order of rotation







June 07, 2017 unit 7.notebook



- A. [4, 1]
- B [2, 1] C [2, 4]
- D [4,4]

A. Rotate 90 degrees at point A

B. rotate 180 degrees at point A

C.Translation R4, U5

