Warm-Up

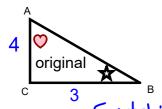
June 5, 2019

1. Is the following a linear relation? if yes write the equation and describe the relationship.

X	У
0	-1>x3
1	2(25)
2	5 +3
3	8

Similar Polygons Chp 7

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



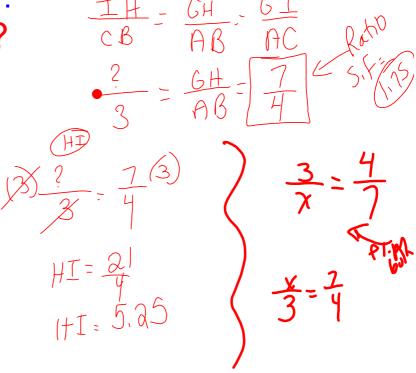
1) List the corresponding angles

Ratio of corresponding sides

3) find the scale factor.

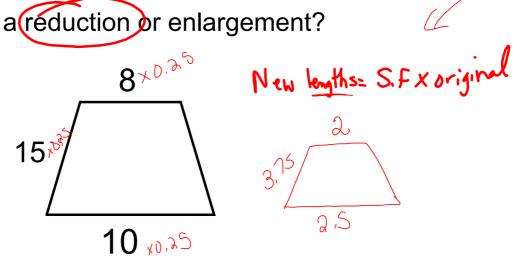
4) Find side HI?

$$\begin{array}{c|c}
7 & G \\
< ACB = < GIH \\
< CBA : < IHG \\
< BAC : < HGI
\end{array}$$



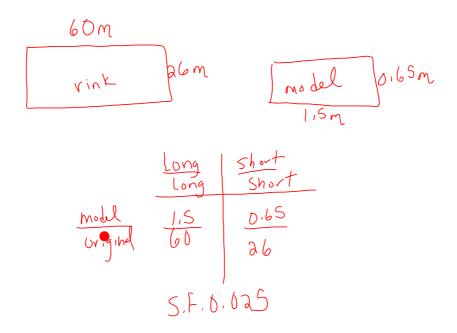
Sketch a diagram that is 1/4 the size of the original 6025

Is this a reduction or enlargement? B.

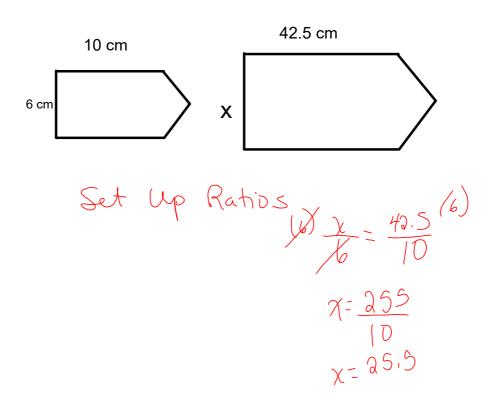


#3. A hockey rink measures 60 m by 26 m. A model of a hockey rink measures 1.5 m by 0.65 m?

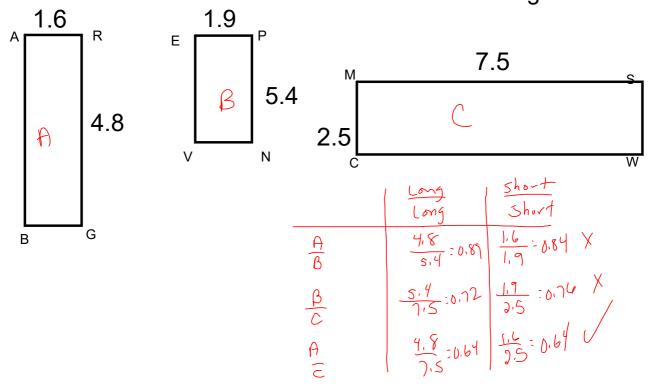
What is the scale factor?



These polygons are similar Solve for x



Are these Rectangles similar?



Similar Triangles

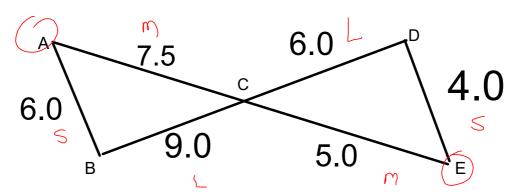
Triangles are a special polygon.

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

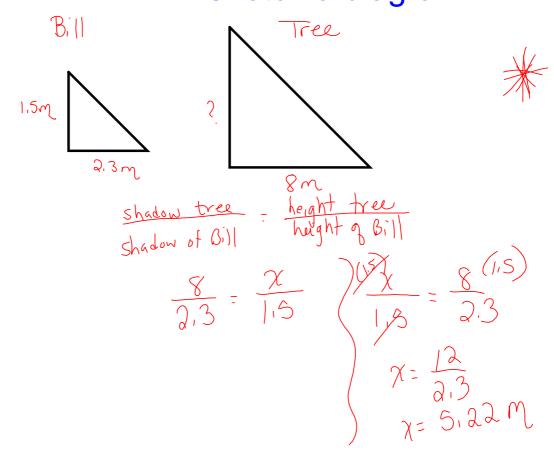
Scale factor?

$$\frac{AB}{ED} = \frac{CB}{CD} = \frac{AC}{EC}$$

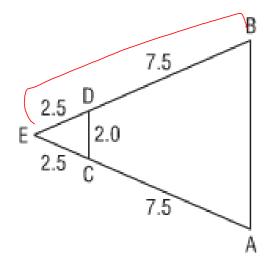
$$\frac{6}{4} = \frac{9}{6} = \frac{7.5}{5}$$

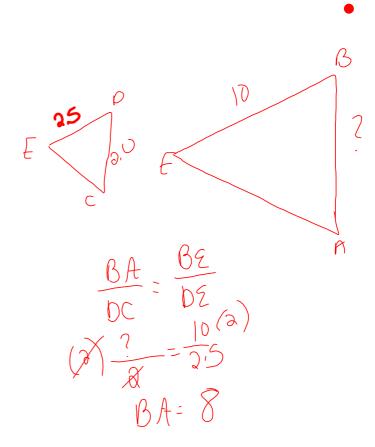
$$1.5 = 1.5 = 1.5$$

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

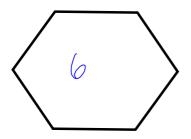


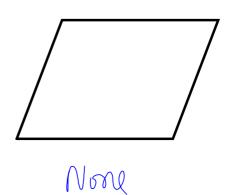
Solve for BA





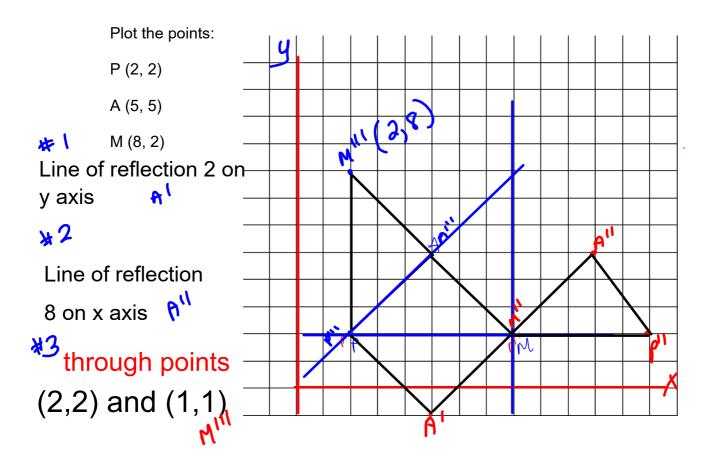
Lines of Symmetry





How many lines of symmetry?

9





P (2, 2)

A (5, 5)

M (8, 2)

#1

Line of reflection 2 on - y axis

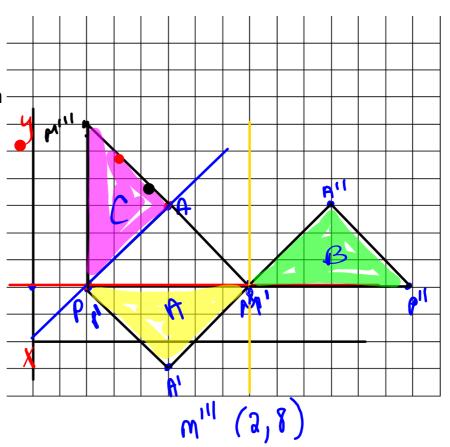
¥2

Line of reflection

8 on x axis

*3

(2,2) and (1,1)



Rotational Symmetry

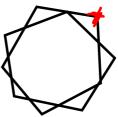
 The number of times a shape coincides with itself, during rotation of 360, ORDER OF ROTATION!

• ANGLE OF ROTATION-- 360

order of rotation







origin...(0,0)

June 05, 2019 unit 7.notebook

Plot

- A. [4, 1]

- D [4,4]

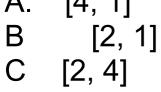
A. Rotate 90 degrees at point A

B. rotate 180 degrees at point A

C.Translation R4, U5

Homework 1-22 Onit #16 Wite on Sheets (show work





HW Ques 1-22 Mark on sheets!