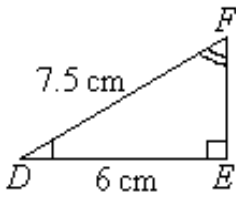


warm-up

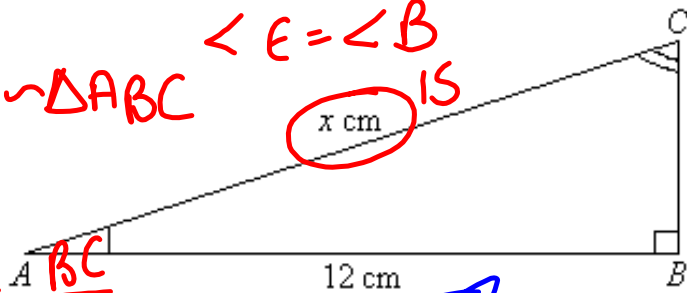
1. Are the triangles similar? How do you know?

2. Solve for x



$\triangle DEF \sim \triangle ABC$

$\angle D = \angle A$
 $\angle F = \angle C$
 $\angle E = \angle B$



$\frac{CA}{FO} = \frac{AB}{DE} = \frac{BC}{EF}$

$\frac{CA}{7.5} = \frac{12}{6} = \frac{BC}{EF}$

$(7.5) \cdot \frac{CA}{7.5} = \frac{12(7.5)}{6}$

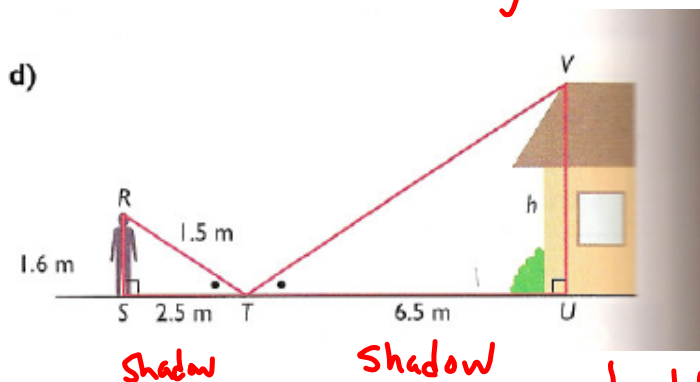
$CA = 15$

If DFE is the original what is the scale factor?
 Reduction or enlargement?

S.F. = $\frac{12}{6}$

S.F. = 2

- Find the height the house •

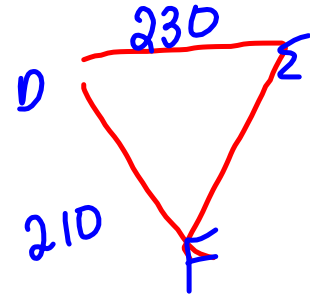
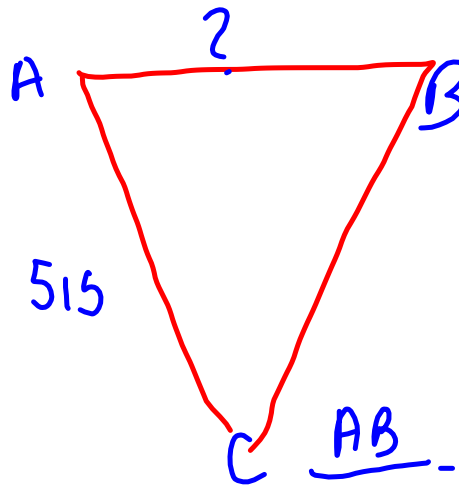
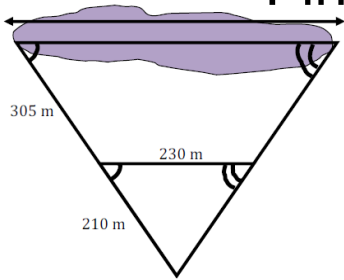


$$\frac{\text{height house}}{\text{height person}} = \frac{\text{Shadow house}}{\text{Shadow person}}$$

$$\cancel{(1.6)} \frac{h}{1.6} = \frac{6.5}{2.5} \cancel{(1.6)}$$

$$h = 4.16$$

Find the distance across the river.

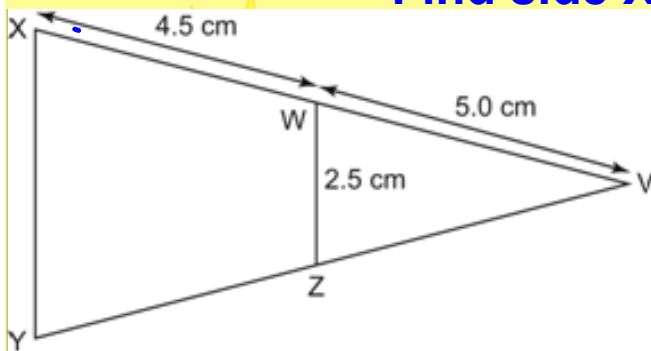


$$\frac{AB}{DE} = \frac{AC}{DF}$$

$$\frac{?}{230} = \frac{515}{210} \quad (230)$$

$$? = 564$$

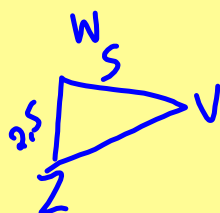
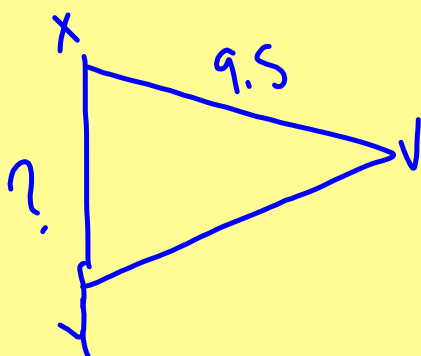
Find side XY



$$\frac{XY}{WZ} = \frac{XV}{WV}$$

$$\frac{?}{2.5} = \frac{9.5}{5} \quad (a.s.)$$

$$? = 4.75$$



For the Test...

① * Scale factor = $\frac{\text{reduction/enlargement}}{\text{original}}$

② * New _____ = scale factor x original

③ * To prove polygons similar the following must be the same:

A. ratio of corresponding sides are equal

B. corresponding angles are equal

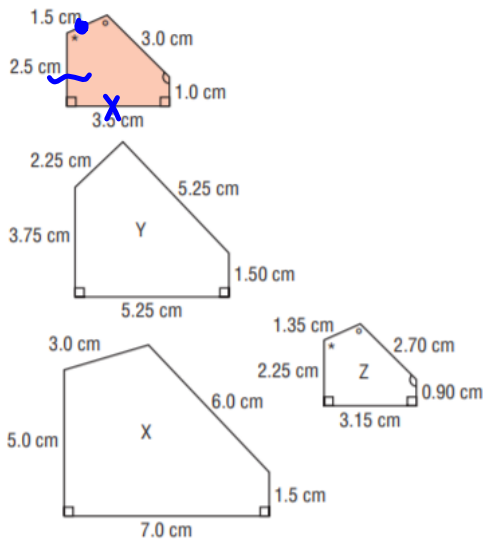
UNLESS A TRIANGLE ONLY NEED A OR B

40 min to complete the quiz...Review worksheet to practice and any questions covered in section 7.1-7.4

Practice for Test sections 7.1-7.4

Page 377 1,6,7,8,9,10,11

6. Which pentagon is similar to the red pentagon? Justify your answer.



compare 3 sides



Extra Pg 465
 Pg 352 1, 2 } # 13, 14, 15
 Pg 380 1 [a, b], 2 }

