### **Curriculum Outcomes:**

(SS3) Demonstrate an understanding of similarity of polygons.

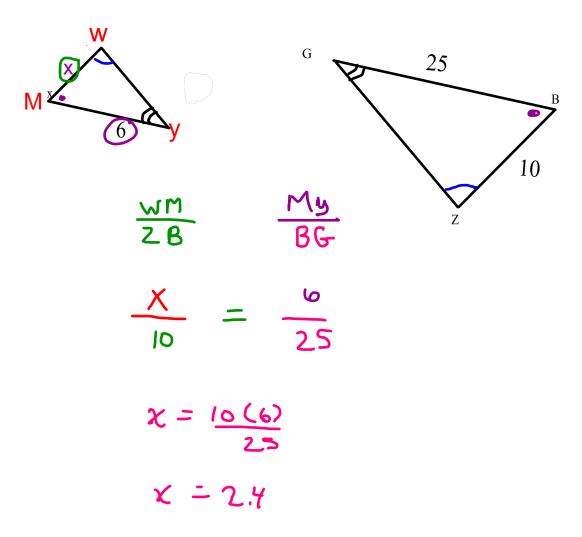
(SS4) Draw and interpret scale diagrams of 2-D shapes.

(SS5) Demonstrate an understanding of line and rotation symmetry.

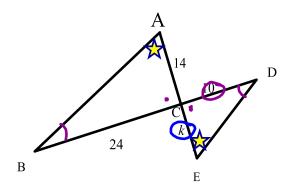
#### **Student Friendly:**

How are diagrams related in size? To increase a length by a certain number be it a fraction or a whole number.

# If $\triangle \underline{M}\underline{W}\underline{Y} \sim \triangle \underline{B}\underline{Z}\underline{G}$ , determine the value of X



Solve for "k"



$$\frac{K}{14} = \frac{10}{24}$$



Hint:

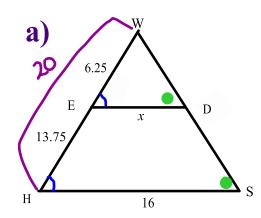
Start by proving triangles are similar first

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

$$K = \frac{10(14)}{2.4}$$

## Try This !!

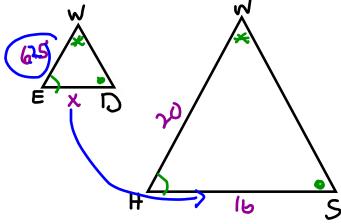
#### Solve for x.



$$\frac{ED}{HS} = \frac{WE}{EWH}$$

$$\chi = 16 (6.25)$$
 $z0$ 
 $\chi \leq 5$ 

Remember to include a similarity statement

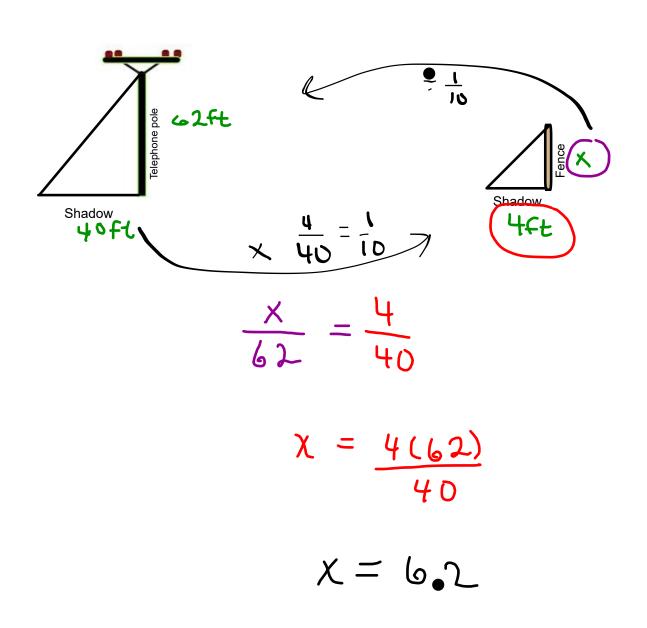




A telephone pole that is 62 ft tall cast a shadow that is 40 ft long. Find the height of a fence pole that cast a 4 ft shadow.



Assume the triangles are similar



# Homework Tonight's



page 348 - 351

4ab, 5bc, 6(bc),7, 10, 11,12,14