

Honors Geometry – Chapter 8 BI Online Review

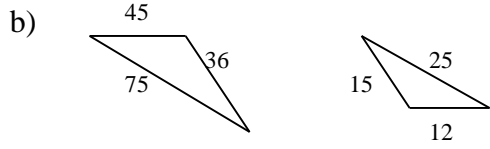
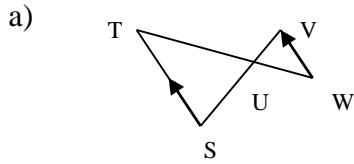
Solve each proportion:

1.  $\frac{4}{5} = \frac{x}{9}$

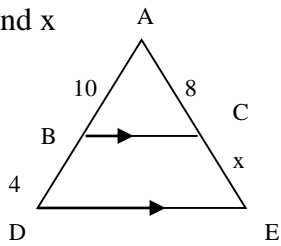
2.  $\frac{x-2}{3} = \frac{12}{17}$

3.  $\frac{3x-1}{2x+4} = \frac{4}{5}$

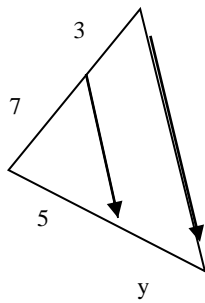
4. Determine if the triangles are similar & state the reason:



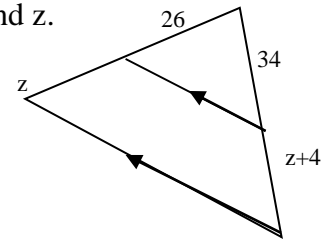
5. Find x



6. Find y.



7. Find z.



8. Use the figure to write the ratios:

a)  $\frac{AB}{CB} =$

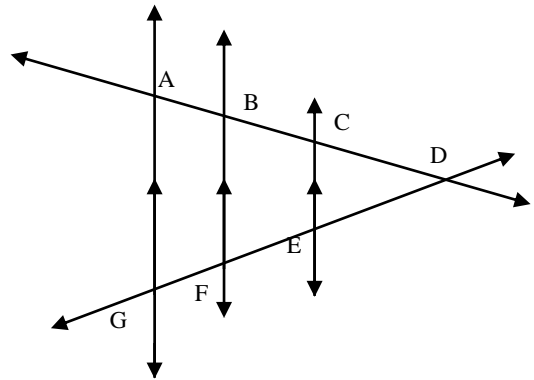
d)  $\frac{CD}{AD} =$

b)  $\frac{AB}{BD} =$

e)  $\frac{GF}{ED} =$

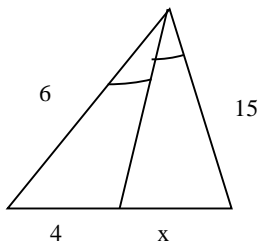
c)  $\frac{GF}{GE} =$

f)  $\frac{DE}{GF} =$

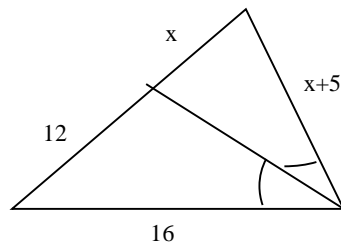


9. Find x

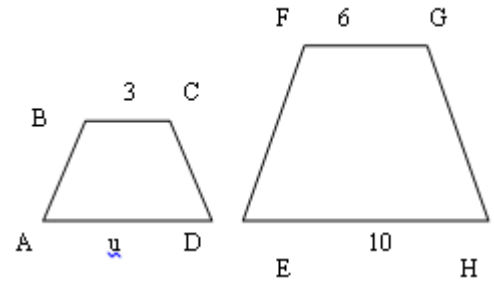
a)



b)



10. a) Find the scale factor  
 b) Find  $u$ .  
 c) If the perimeter of  $ABCD = 50$ ,?  
 what is the perimeter of  $EFGH$



11.  $\triangle ABC$  has vertices  $A(1, 0)$ ,  $B(4, 0)$  and  $C(3, 3)$ . Two vertices of  $\triangle XYZ$  are  $X(1, -2)$  and  $Y(7, -2)$ . Find two different locations for vertex  $Z$  so that  $\triangle RST \sim \triangle XYZ$ .

Answers:

1. 7.2      2.  $x = 4.12$       3.  $x = 3$   
 4. a) yes AAA b) yes SSS  
 5. 3.2      6. 2.14      7. 13  
 8. a)  $GF/FE$     b)  $GF/FD$     c)  $AB/AC$     d)  $ED/GD$     e)  $AB/CD$     f)  $DC/BA$   
 9. a) 10      b) 15  
 10. a)  $\frac{1}{2}$       b) 5      c) 100  
 11.  $(5, 4)$  and  $(5, -8)$