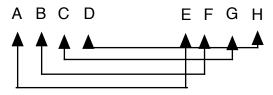
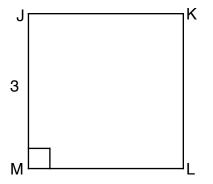
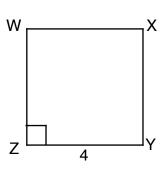


Match the vertices of rectangles ABCD and EFGH like this:

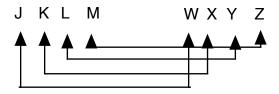


- 1. Are corresponding angles congruent? _____
- 2. Are corresponding sides in proportion? _____
- 3. Are the two rectangles similar?





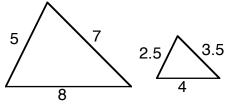
Match the vertices of squares JKLM and WXYZ like this:



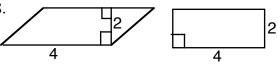
- 4. Are corresponding angles congruent? _____
- 5. Are corresponding sides in proportion? _____
- 6. Are the two rectangles similar?

Using the definition of similar polygons, state why the two polygons are, or are not, similar.

7.

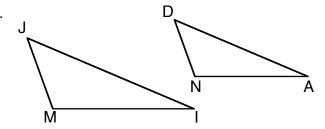


8.



The two polygons are similar. Complete each statement.

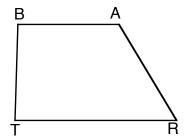
9.



 $\Delta \ JIM \sim \Delta \ ___$

$$\frac{JI}{DA} = \frac{IM}{} = \frac{JM}{}$$

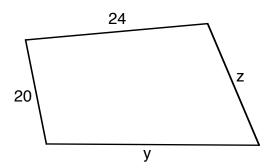
10

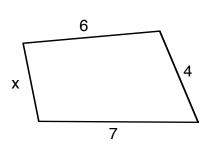


I M K E Trapezoid BART ~ Trapezoid _____

$$\frac{BA}{MI} = \frac{BT}{M} = \frac{RT}{M} = \frac{AR}{M}$$

The two polygons are similar. Find the values of x, y, and z.





11. Scale factor = _____

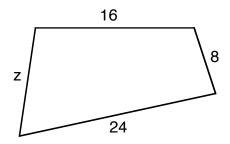
12. Scale factor = _____

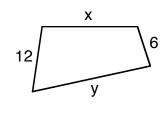
13. Scale factor = _____

Proportion for x

Proportion for y

Proportion for z

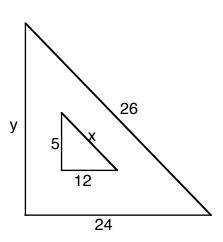




- 14. Scale factor = _____ 15. Scale factor = _____ 16. Scale factor = _____
 - Proportion for x
- Proportion for y
- Proportion for z

$$x = \underline{\hspace{1cm}}$$

$$z =$$



- 17. Scale factor = _____
- 18. Scale factor = _____

Proportion for x

Proportion for y