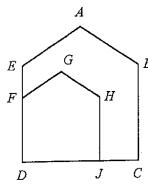
Quiz 6.1-6.2 REVIEW

1. ABCDE ~ GHJDF. Complete the statements.



∠H ≅

$$\mathbf{b.} \quad \frac{GH}{DJ} = \frac{AB}{\blacksquare} \boxed{\text{CD}}$$

The measures of the angles of a triangle are in the extended ratio 2:4:6. What is the measure of the smallest angle? $2 \times +4 \times +6 \times = 180$ $12 \times = 180$ $\times = 15$ $2(15) = 30^{\circ}$

What is the solution of each proportion?

$$3. \quad \frac{7}{a} \times \frac{14}{16}$$

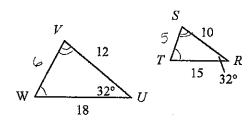
3.
$$\frac{7}{a} \times \frac{14}{16}$$
 $|4a=7(16)| \frac{|4a=1|2}{|4|} = \frac{8}{14}$

$$4. \underbrace{\left(\frac{3y-8}{12}\right)}_{}^{} \underbrace{\frac{y}{5}}_{}^{}$$

4.
$$\frac{(3y-8)}{12} = \frac{y}{5}$$
 5 $(3y-8) = 12y$ $\frac{15y-40=12y}{-15y}$ $\frac{-40=-3y}{13.3=y}$

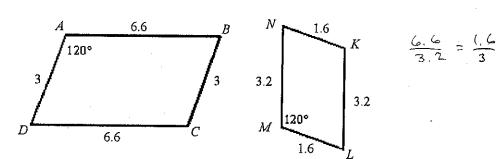
- 5. A salsa recipe uses green pepper, onion, and tomato in the extended ratio 1:3:4. How many cups of onion are needed to make 16 cups of salsa? $1 \times 10^{-3} \times 10^{$
- 6. In a diagram of a landscape plan, the scale is 1 cm = 10 ft. In the diagram, the trees are 3.4 centimeters apart.
- 7. The ratio of length to width in a rectangle is 3 to 1. If the perimeter of the rectangle is 32 feet, what is the length of the rectangle? 3x+1x+3x+1x=32

Are the polygons similar? If they are, write a similarity statement and give the scale factor.



Not drawn to scale.

8. 9.



Not drawn to scale.

10. A model is made of a car. The car is 8 feet long and the model is 6 inches long. What is the ratio of the length of the car to the length of the model? 8ft ((2) = 96 in a line of the length of the car to the length of the model?

The polygons are similar, but not necessarily drawn to scale. Find the value of x.

11.

