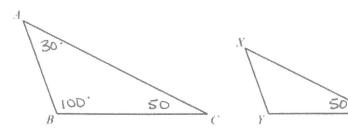
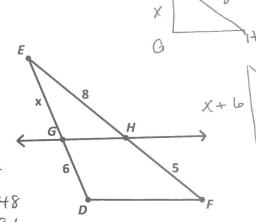
Name	Kenz	
Date		Period

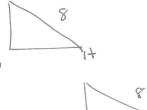
1. In the triangles shown,  $\triangle ABC$  is dilated by a factor of  $\frac{2}{3}$  to form  $\triangle XYZ$ .



Given that  $m\angle A = 30^{\circ}$  and  $m\angle B = 100^{\circ}$ , what is  $m\angle Z$ ?

2. In the triangle shown, GH || DF





What is the length of  $\overline{GE}$  ?

$$\frac{X}{6} = \frac{8}{5}$$

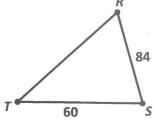


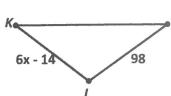
$$5x = 48$$
  
 $x = 9.6$ 

**3.** 
$$\triangle RST \sim \triangle JLK$$

What is the measure of x?

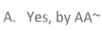




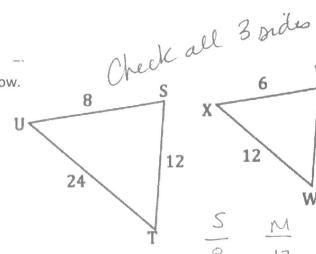


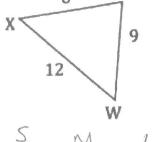
$$\frac{84}{98} = \frac{60}{6x-14}$$

4. Are the two triangles similar? If so, state how.



- B. Yes, by SAS~
- C. Yes, by SSS~
- D. No, the triangles are not similar





**5.** Examine the two triangles below and determine if  $\Delta MNQ$  is similar to  $\Delta PNO$ .

A. Yes, by AA~

B. Yes, by SAS~

- C. Yes, by SSS~
- D. No, there is not enough information

