

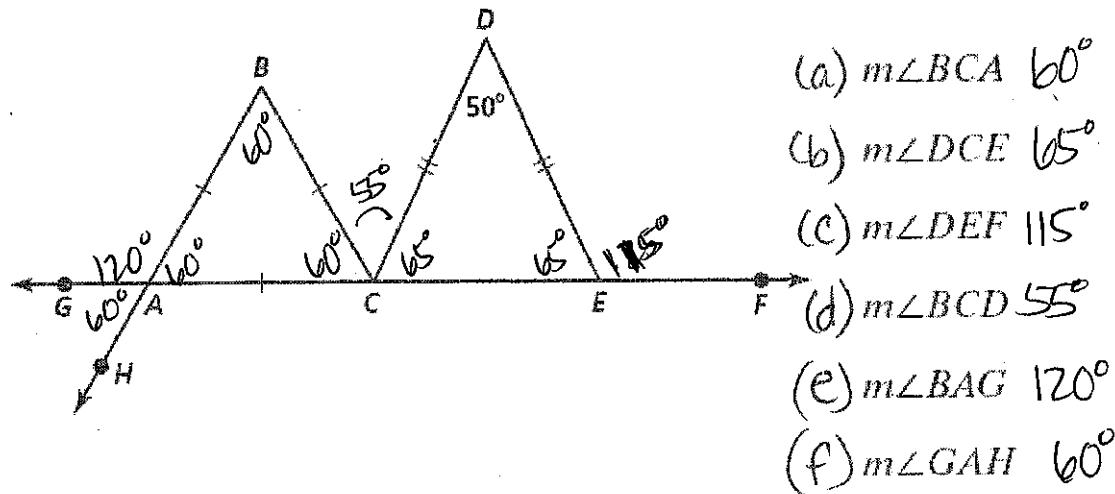
* CIVIL Review *

Name Answer Key Hour _____

4-6 Isosceles and Equilateral Triangles Worksheet

Use the figure to find the measure of each angle.

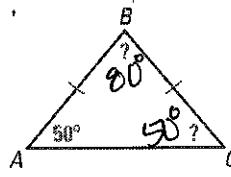
1.



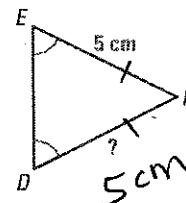
2. Is every equilateral triangle isosceles? - Yes (2 equal sides)
 Is every isosceles triangle equilateral? - No (only 2 equal sides, not 3)
 Explain your reasoning.

Find the unknown measures.

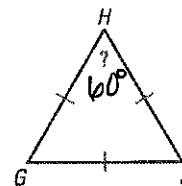
3.



4.

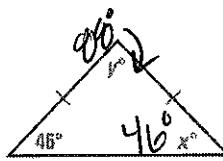


5.

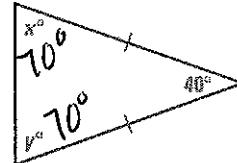


Solve for x and y.

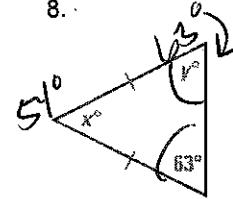
6.



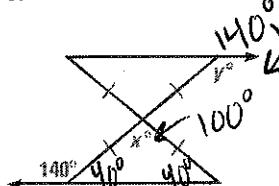
7.



8.



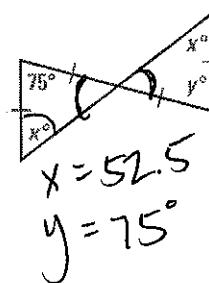
9.



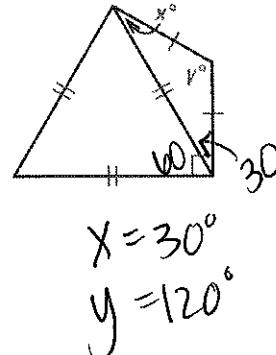
$$x = 100^\circ$$

$$y = 140^\circ$$

10.

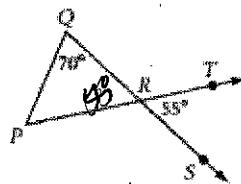


11.

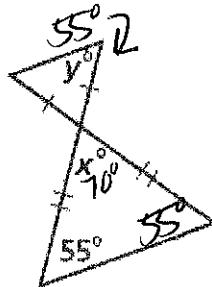


12.

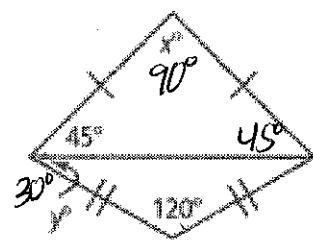
Use the diagram to explain why $\triangle PQR$ is isosceles.



13.

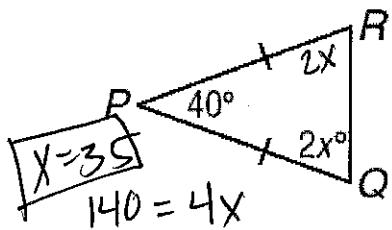


14.

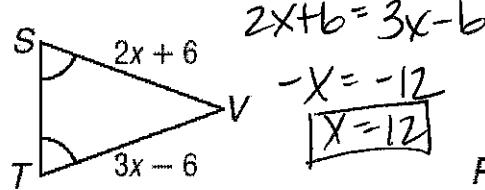


Find the value of the missing variables.

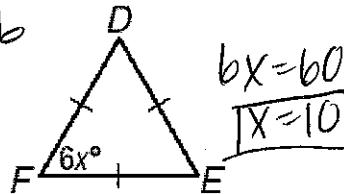
15.



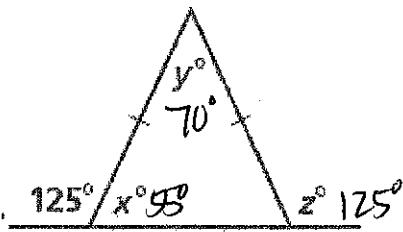
16.



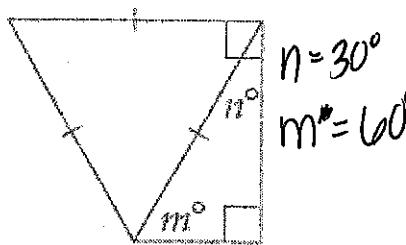
17.



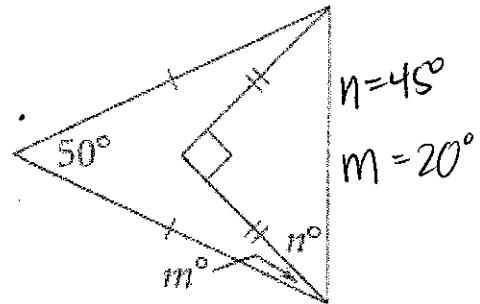
18.



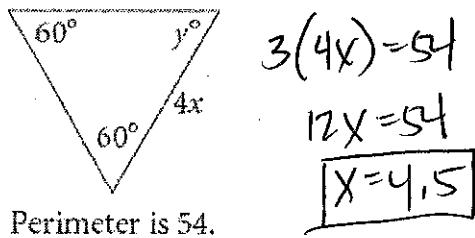
19.



20.

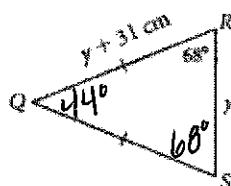


21.



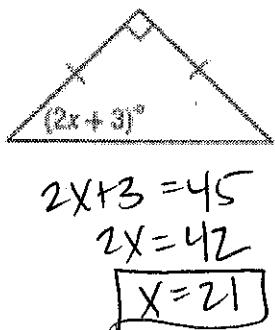
22.

The perimeter of $\triangle ORS$ is 344 cm. $m\angle Q = 44^\circ$,
 $QR = \underline{\hspace{2cm}}$

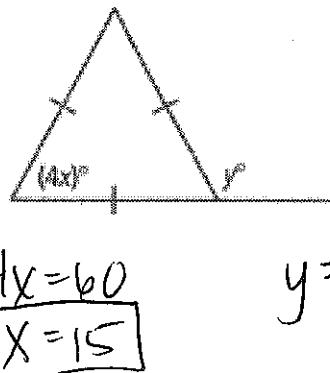


$$\begin{aligned} 3(y+31) &= 344 \\ 3y + 93 &= 344 \\ y &= 83.1 \end{aligned}$$

23.



24.

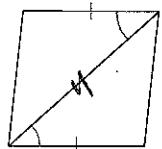


Review for Quiz Continued

Date _____ Period _____

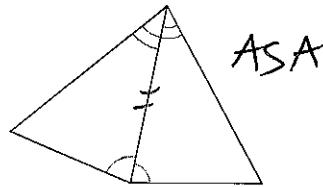
State if the two triangles are congruent. If they are, state how you know.

1)



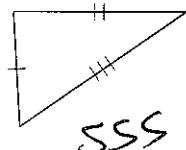
SAS

2)

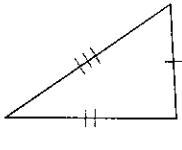


ASA

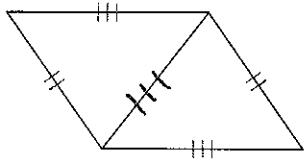
3)



SSS

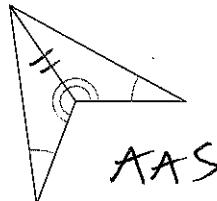


5)



SSS

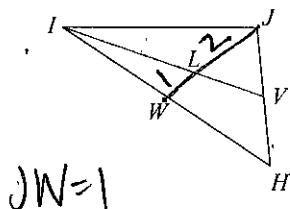
4)



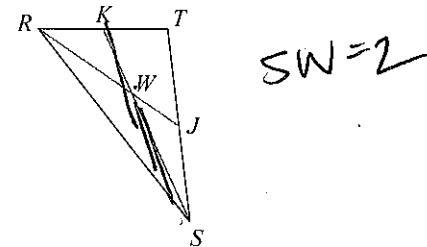
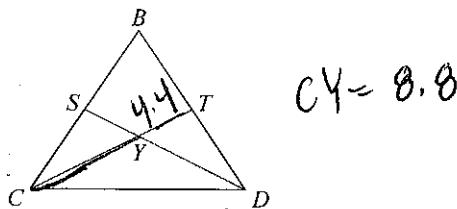
AAS



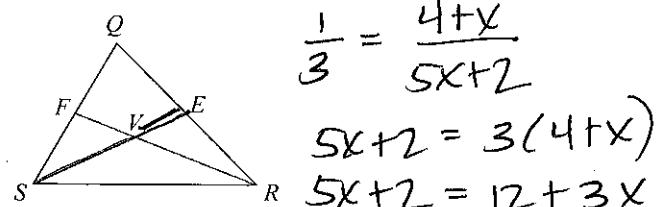
Each figure shows a triangle with one or more of its medians.

6) Find JW if $JL = 2$ 

$JW = 1$

7) Find SW if $SK = 3$ 8) Find CY if $YT = 4.4$ 

$CY = 8.8$

9) Find x if $SE = 5x + 2$ and $VE = 4 + x$ 

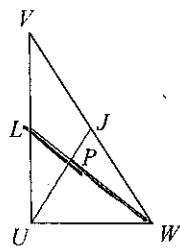
$$\frac{1}{3} = \frac{4+x}{5x+2}$$

$$5x+2 = 3(4+x)$$

$$5x+2 = 12+3x$$

$2x = 10$

$$\boxed{x=5}$$

10) Find x if $WP = 3x + 2$ and $WL = 5x$ 

$$\frac{2}{3} = \frac{3x+2}{5x}$$

$$10x = 9x + 6$$

$$\boxed{x=6}$$