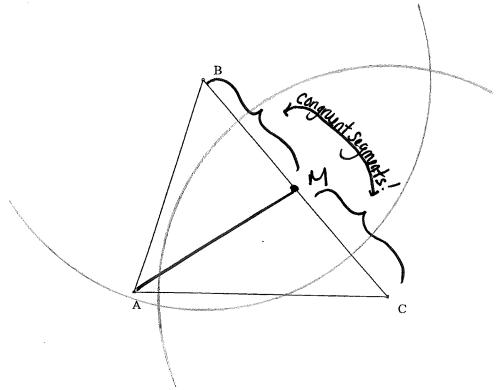
•	1/	
Names	MALL	Date: Hour:
Name:	1100	Date

## Medians Constructing a Median

<u>Median-</u> A segment which starts at the vertex of a triangle and goes through the midpoint of the side opposite that vertex.

Given the triangle below, follow Construction 2 on pg. 267 to construct the median to segment BC. Explain how you did the construction IN YOUR OWN WORDS below the triangle. Complete the geometry statement below.

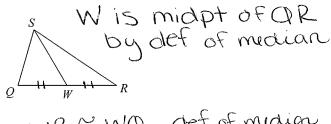


## Median Examples

Hour

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

1) Find x if WR = 6x and WQ = 5x + 2 Find WC 2) Find x if WK = 6x - 1 and WL = 5x

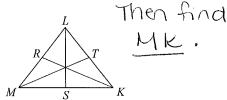


$$WR \cong WQ$$
 def of mudian  $6x = 5x + 2$ 

$$\boxed{x = 2}$$

$$WR = 5(2) + 2$$
 $WR = 12$ 

3) Find x if SK = 2x - 4 and SM = x



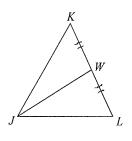
SKISM def of median

$$2x-4=x$$

$$-4=-x$$

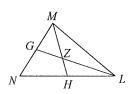
$$4=x$$

$$MK = MS + SK$$
 $MK = 4 + 2(H) - 4$ 
 $MK = 8 \text{ units}$ 



WK = WL deformedian 6x-1=5x

4) Find x if  $GN = \frac{2}{5}x - \frac{9}{5}$  and  $GM = \frac{1}{5}x - \frac{1}{5}$ 



GN=GM def of median  $5(\frac{2}{5}x-\frac{9}{5})=(\frac{1}{5}x-\frac{1}{5})x8$ 

$$2x - 9 = 1x - 1$$