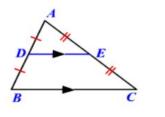
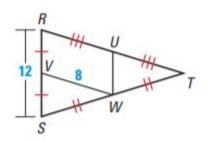
## Midsegment Theorem

The segment connecting the midpoints of two sides of a triangle is parallel to the third side and is half as long.

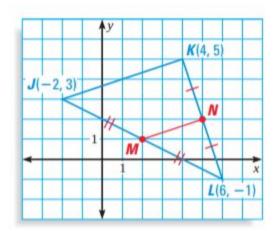


$$\overline{DE} \parallel \overline{BC}$$
 and  $DE = \frac{1}{2}BC$ 

1. UW and VW are midsegments of  $\triangle RST$ . Find UW and RT.



- 2. Use the coordinate plane below for the following questions
  - a. Find the coordinate of the midpoint on  $\overline{JK}$ .
  - b. What is the slope of the midsegment  $\overline{MN}$ ? Is it the same as the slope of  $\overline{JK}$ ?



3.  $\overline{GH}$ ,  $\overline{HJ}$ ,  $\overline{JG}$  are midsegments of  $\Delta DEF$ . Find the following:

a. 
$$\overline{JH} \parallel$$

c. 
$$DF =$$
\_\_\_\_\_

d. \_\_\_\_\_ || 
$$\overline{DE}$$

f. 
$$JH = ____$$

g. Find the perimeter of

$$\triangle GHJ$$

