Geometry Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Segment Relationships: Basics Date:\_\_\_\_\_\_\_\_\_\_HR :\_\_\_\_

**1. Describe the figure as a point, line, segment, or ray.**



**a. b. c. d.**





**e. f. g. h.**

2. RS TU, ST = 14, RU = 46

R

S

T

U

B

C

U

T

U

 \*the figure is not drawn to scale\*

 a) Find RS b) Find SU.

3. Find ST 4. Find ZY.



**Refer to the figure and the given information to find each measure.**

5. Given : AC = 38 m 6. Given the figure and DG = 27 ft .

C

**.**

A

B

5x-4

8x - 10

D

O

G

2x+3

 3x - 1

x = \_\_\_\_\_\_\_ AB = \_\_\_\_\_\_BC = \_\_\_\_\_\_

x = \_\_\_\_\_\_\_ DO = \_\_\_\_\_\_OG = \_\_\_\_\_\_

7. B is the midpoint of AC.

A

B

C

25 m

x

x = \_\_\_\_\_\_\_\_\_ AB = \_\_\_\_\_\_\_\_\_ BC = \_\_\_\_\_\_\_\_\_ AC = \_\_\_\_\_\_\_\_\_

8. B is the midpoint of AC.

A

B

C

4x-12

-2x+21

x = \_\_\_\_\_\_\_\_\_ AB = \_\_\_\_\_\_\_\_\_ BC = \_\_\_\_\_\_\_\_\_ AC = \_\_\_\_\_\_\_\_\_

9. Find x and the measure of $\overbar{JK} $if K is the midpoint of $\overbar{JL}$. Show work.



 x = \_\_\_\_\_\_\_\_\_\_\_\_

 JL = \_\_\_\_\_\_\_\_\_\_\_

10. Find x and the measure of $\overbar{JK} $if K is the midpoint of $\overbar{JL}$. Show work.



 x = \_\_\_\_\_\_\_\_\_\_\_\_

 JL = \_\_\_\_\_\_\_\_\_\_\_