

# Lesson 1.2 Worksheet

Name: \_\_\_\_\_

Write an explanation to answer the question.

1.) Explain the difference between  $MN$  and  $\overline{MN}$ .

In exercises 2-4, find the indicated length

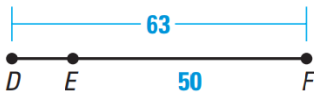
2.) Find  $MP$ .



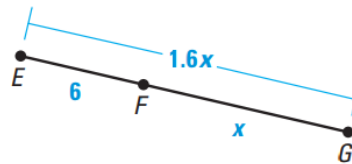
3.) Find  $XY$ .



4.) Find  $DE$ .



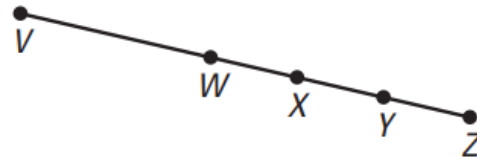
5.) Find  $EG$ .



In the diagram to the right, points  $V, W, X, Y,$  and  $Z$  are collinear.  $VZ=52, XZ=20,$  and  $WX=XY=WZ$ . Find the indicated lengths.

5.)  $WX$

6.)  $VW$



7.)  $WY$

8.)  $VX$

9.)  $WZ$

10.)  $VY$

For exercises 11-13 point  $S$  is between  $R$  and  $T$  on  $\overline{RT}$ . Use the given information to draw a labeled picture, set up and solve an equation in terms of  $x$ , and then find  $RS$  and  $ST$ .

11.)

$$RS = 2x + 10$$

$$ST = x - 4$$

$$RT = 21$$

Picture:

Equation:

$$RS = \underline{\hspace{2cm}}$$

$$ST = \underline{\hspace{2cm}}$$

12.)

$$RS = 3x - 16$$

$$ST = 4x - 8$$

$$RT = 60$$

Picture:

Equation:

$$RS = \underline{\hspace{2cm}}$$

$$ST = \underline{\hspace{2cm}}$$

13.)

$$RS = 2x - 8$$

$$ST = 3x - 10$$

$$RT = 17$$

Picture:

Equation:

$$RS = \underline{\hspace{2cm}}$$

$$ST = \underline{\hspace{2cm}}$$