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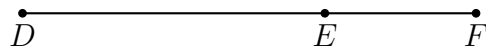
1.1 Classwork: Segment addition, vocabulary

1. Given \overline{ABC} , $AB = 2$, and $AC = 12$. Find BC .



2. Given \overline{DEF} , $DE = 3\frac{1}{3}$, and $EF = 1$.

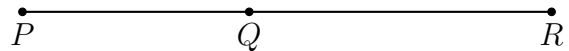
(a) Find DF .



(b) The postulate used in this problem is the _____.

3. Given \overline{PQR} , $PQ = x - 2$, $QR = x$, $PR = 10$. Find PQ .

(a) Label the diagram with the given values.



(b) Write an equation:

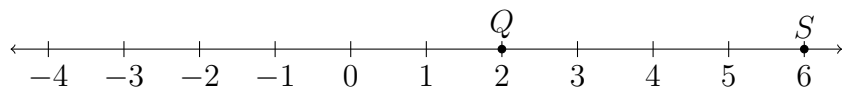
(c) Solve for x

(d) Answer the question.

Find PQ by substituting for x .

(e) Check your answer

4. Given \overleftrightarrow{QS} as shown on the number line.

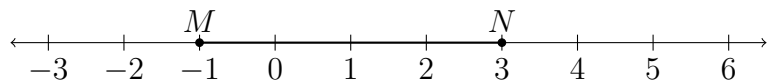


- (a) In the given number line units, what is the distance between Q and S ?

$$QS =$$

- (b) Mark the point R , the midpoint of \overline{QS} .

5. Given \overline{MN} with $M(-1)$ and $N(3)$, as shown on the number line.



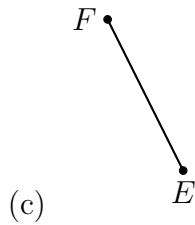
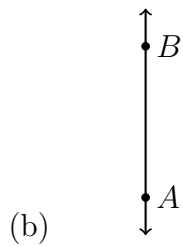
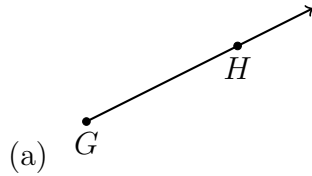
What is the length of the segment \overline{MN} ? Show your work as an equation.

Can a length be a negative number?

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6. Points that are all located on the same line are _____.

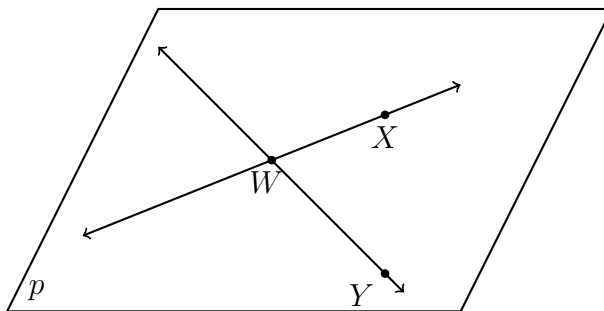
7. Use symbols to write the name of each geometric figure.



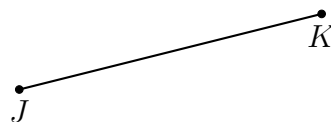
8. A flat surface is a(n) _____.

9. Two line segments or angles of equal measure are _____.

10. Identify two rays in the given plane.

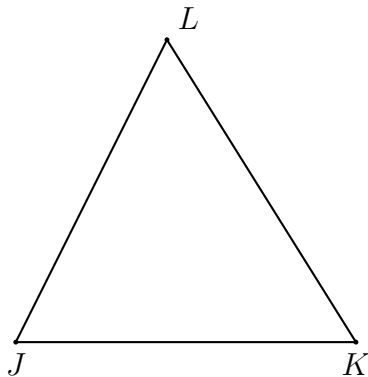


11. Use symbols to write the name of the given figure.



12. A(n) _____ is a portion of a line that includes two points and all of the collinear points between the two points.

13. Given $\triangle JKL$ with $\overline{JK} \cong \overline{KL}$. On the diagram mark the congruent line segments with tick marks.



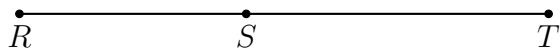
14. Draw and label a line segment \overline{AB} such that the distance between points A and B is 6 cm.

15. Given the rectangle $ABCD$ shown below.

- (a) Measure and mark the length and width of the rectangle in centimeters.
(b) Calculate the area of the rectangle in square centimeters. (show your work)



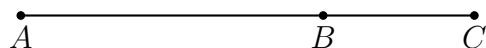
16. Do Now: Given \overline{RST} , $RS = 3\frac{2}{3}$, and $RT = 9\frac{1}{3}$. Find ST .



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17. Given \overline{ABC} , $AB = 3.8$, and $BC = 1.7$.

(a) Find AC .



(b) The postulate used in this problem is the _____.

18. Given \overline{FG} as shown. What is the distance on the number line between the points?

