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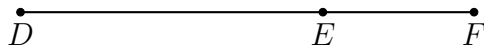
**1-1 Classwork: Segment Addition, Vocabulary**

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



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

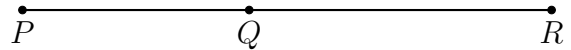
(a) Find  $DF$ .



(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  $x$

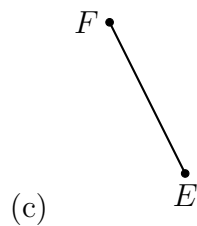
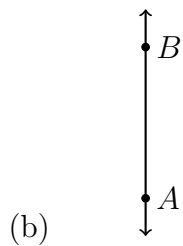
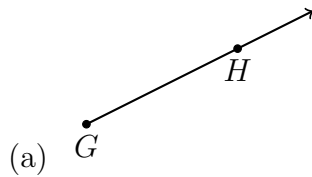
(d) Answer the question.

Find  $PQ$  by substituting for  $x$ .

(e) Check your answer

4. Points that are all located on the same line are \_\_\_\_\_.

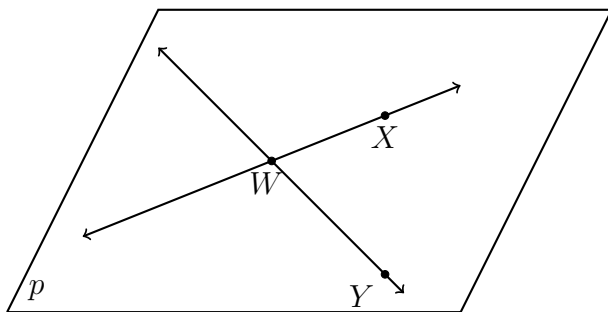
5. Use symbols to write the name of each geometric figure.



6. A flat surface is a(n) \_\_\_\_\_.

7. Two line segments or angles of equal measure are \_\_\_\_\_.

8. Identify two rays in the given plane.



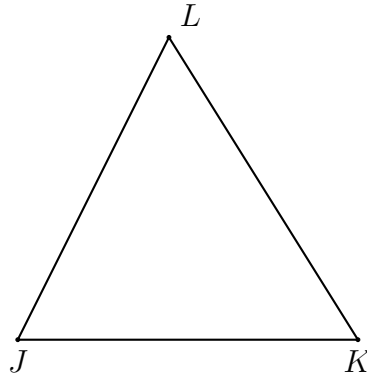
9. Use symbols to write the name of the given figure.



10. A(n) \_\_\_\_\_ is a portion of a line that includes two points and all of the collinear points between the two points.

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



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

13. 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)

