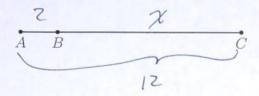
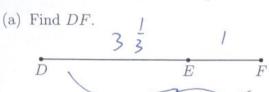
1-3 Classwork: Segment Addition Pretest, Vocabulary

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



$$2+x=/2$$

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



- (b) The postulate used in this problem is the Segment addition postlete
- 3. Do Now: Given \overline{PQR} , PQ = x 2, QR = x, PR = 10. Find PQ.
 - (a) Label the diagram with the given values.



(b) Write an equation:

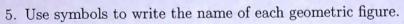
$$(\chi-2)+\chi=10$$

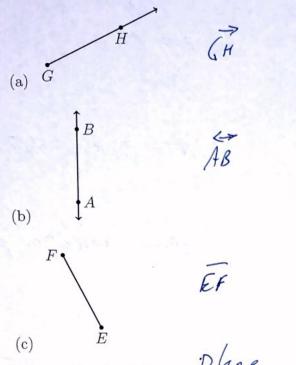
(c) Solve for x

$$2x-2=10$$
 $+2$
 $7=6$

(d) Answer the question. Find PQ by substituting for x.

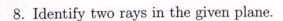
(e) Check your answer

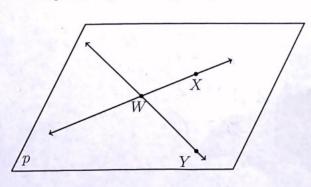




6. A flat surface is a(n)

7. Two line segments or angles of equal measure are ______ Congruent.



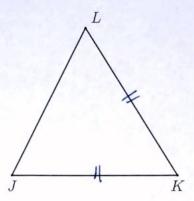


WX

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

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

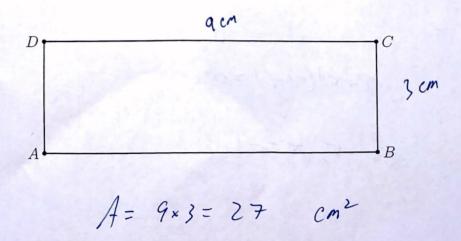
11. Given $\triangle JKL$ with $\overline{JK}\cong \overline{KL}$. On the diagram mark the congruent line segments with tick marks.



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)



14. Early finishers: In the following two problems, solve for the value of x.

(a)
$$2x + 3 = x + 9$$

 $- \gamma - 3 - \gamma = 3$
 $\gamma = 6$

15. Given the linear function f(x) = 3x + 4.

$$\begin{cases}
(\circ) = 3(\circ) + 4 \\
= 4
\end{cases}$$

(a) Find f(0)

$$f(x) = 3x + 4 = 10$$

 $-4 - 4$
 $3x = 6$
 $x = 2$

(b) f(x) = 10. Find x.

16. Given $x^2 + 6x + 5 = 0$. Factor and find the roots.

$$(\chi+5)(\gamma+1)=0$$

 $\chi=-5, \chi=-1$