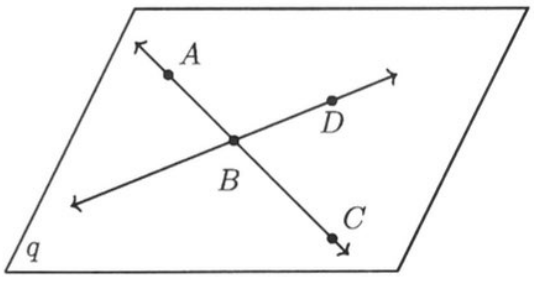
BECA / Dr. Huson / Geometry
Unit 1: Segments, length, and area
19 Sept 2022

Name: Solutions

1.7 Exit Note Quiz: Length and perimeter, geometric notation

1. Various objects are depicted. Circle True or False for each statement.



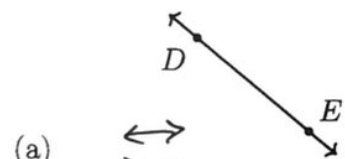
(a) T (F) The intersection of the two lines is point D.

(b) T (F) The line $\overleftrightarrow{AD}$ is shown.

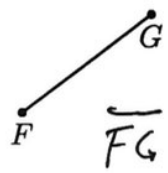
(c) (T) F The plane is labeled q.

(d) (T) F $\overrightarrow{BA}$, $\overrightarrow{BC}$ are opposite rays.

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



(a) $\overleftrightarrow{DE}$



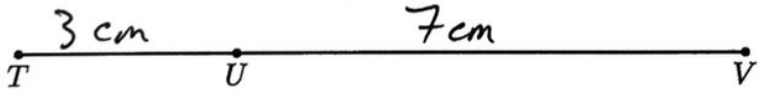
(b) $\overline{FG}$

(c) $\overrightarrow{KJ}$

3. Points in the same line are Collinear.

4. The line segment $\overline{TUV}$ is diagrammed below.

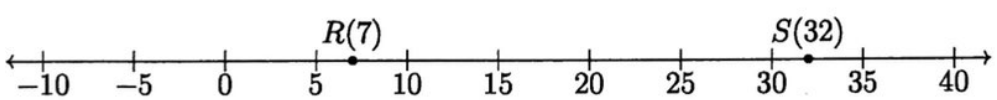
(a) Measure and label the lengths TU and UV to the nearest centimeter.



(b) Write an equation employing the Segment Addition Postulate.
(fill in the blanks with values in centimeters)

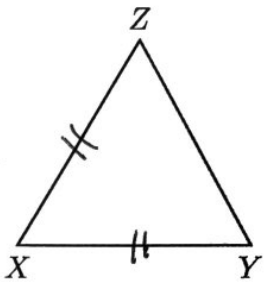
$TV =$ 3 $+$ 7 $=$ 10 cm

5. Points $R(7)$ and $S(32)$ are shown below. Find RS.

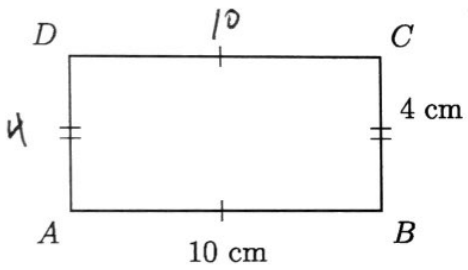


$RS = 32 - 7 = 25$

6. Given isosceles $\triangle XYZ$ with $\overline{XY} \cong \overline{XZ}$. On the diagram mark the congruent line segments with tick marks.

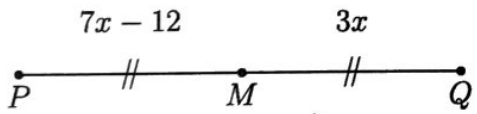


7. Rectangle $ABCD$ is shown with length 10 centimeters and width 4 cm. Fill in the blanks and find the rectangle's perimeter.



$P = 10+4+$ 10 $+$ 4 $=$ 28 cm

8. Given $\overline{PMQ}$, M bisects $\overline{PQ}$, $PM = 7x - 12$, $MQ = 3x$. Find PQ. (show check)



$7x - 12 = 3x$

$4x = 12$

$x = 3$

$7(3) - 12 = 3(3)$?

$21 - 12 = 9$ ✓

9. How do you think you did?