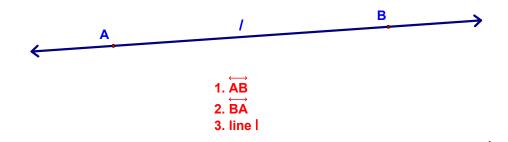
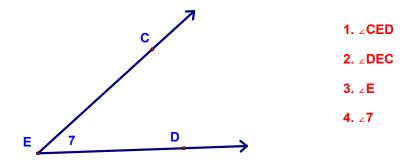
What are the three possible names for the line shown?



2.

What are the four possible names for the angle shown?



3.

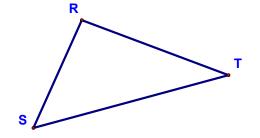
Can the ray shown be called \overrightarrow{XY} ?



No! It can only be called \overrightarrow{YX} with the information shown.

4.

Name the sides of $\triangle RST$.



 $\overline{\text{RT}}$, $\overline{\text{TS}}$, and $\overline{\text{SR}}$

a. $\overline{AB} \cap \overline{BC} = Point B$

b. $\overrightarrow{EC} \cup \overrightarrow{EA} = \overrightarrow{AC} \text{ or } \angle AEC$

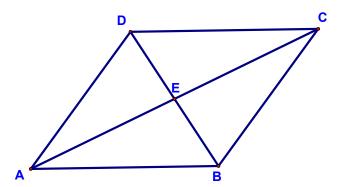
c. $\overrightarrow{AC} \cap \overrightarrow{DB} = Point E$

d. $\overline{DC} \cap \overline{AB} = \emptyset$

e. $\overrightarrow{AC} \cap \overrightarrow{EC} = \overrightarrow{EC}$

f. $\overrightarrow{BA} \cup \overrightarrow{BC} = \angle ABC$

g. $\overline{EC} \cup \overline{CB} \cup \overline{BE} = \Delta BEC$



6.

a. Name ∠OPR in all possible ways.

∠RPO, ∠RPS, ∠SPR

b. What is the vertex of ∠TOS?

0

c. How many angles have vertex R?

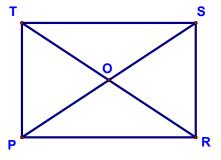
3

d. Name ∠TSP is all other possible ways.

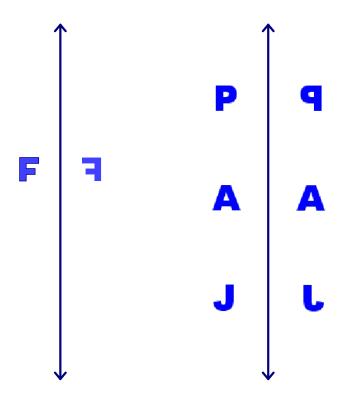
∠PST, ∠OST, ∠TSO

e. How many Δs are there in the figure?

8



The figure on the left shows the reflection of the letter F over a line. Draw the reflections of the letters P, A, and J over the line shown on the right.

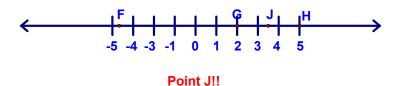


8.

- a. A line is made up of <u>points</u>.
- b. An angle is the union of two <u>rays</u> with a common <u>endpoint</u>.

9.

Draw a number line and label point F, G, H, and J with the coordinates $-4\frac{2}{3}$, 2, 5, and 3.5 respectively. One of these points is the *midpoint* (the halfway point) between two others. Which is it?



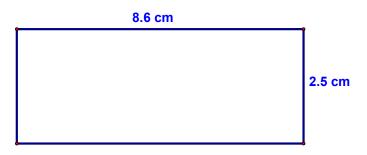
Given a rectangle with sides 2.5 cm and 8.6 cm long, find

a. The rectangle's area

$$A = I * w = (8.6)(2.5) = 21.5 \text{ cm}^2$$

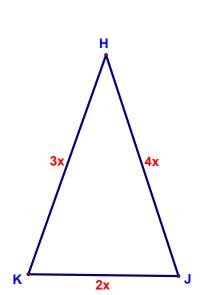
b. The rectangle's perimeter (the distance around it)

$$P = 2(8.6) + 2(2.5) = 22.2 \text{ cm}$$



11.

- a. In \triangle HJK, $\overline{\text{HJ}}$ is twice as long as $\overline{\text{JK}}$ and exactly as long as $\overline{\text{HK}}$. If the length of $\overline{\text{HJ}}$ is 15, find the perimeter of \triangle HJK.
- b. If the length of \overline{HJ} was 4x, the length of \overline{HK} was 3x, the length of \overline{JK} was 2x, and the perimeter of $\triangle HJK$ was 63, what would be the length of \overline{HJ} ?



$$\Rightarrow x = \frac{15}{2}$$

$$\Rightarrow P = 5x = \frac{75}{2}$$

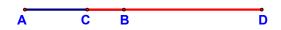
$$4x + 3x + 2x = 63$$

$$\Rightarrow$$
 9x = 63

$$\Rightarrow$$
 x = 7

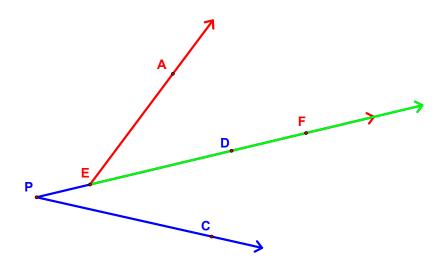
$$\therefore$$
 HJ = 4x = 4(7) = 28

Draw a diagram in which $\overline{AB} \cap \overline{CD} = \overline{CB}$



13.

Draw a diagram in which the intersection of ∠AEF and ∠DPC is ED.



14.

a. What percentage of the Δs in the diagram have $\overline{\text{CT}}$ as a side?

3 of the 8
$$\triangle$$
s have \overline{CT} as a side, so $\frac{3}{8}$ = 37.5%

b. What percentage have $\overline{\text{AC}}$ as a side?

2 of the 8
$$\triangle$$
s have \overline{AC} as a side, so $\frac{2}{8}$ = 25%

