

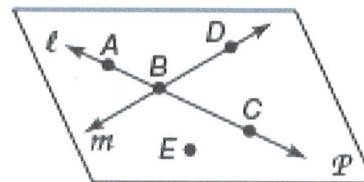
Name: They

Date: _____

Station Review 1 Ch. 1.1

1. Find the intersection point of line l and line m .

Point B

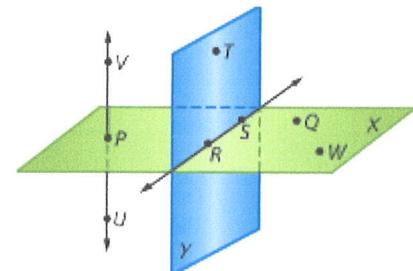


2. Name three collinear points. (Use diagram to the right)

V, P, U

3. Name three coplanar points. (Use diagram to the right)

T, R, S or Q, W, P



4. Where do plane Y and plane X intersect. (Use the figure above)

$\leftarrow RS \rightarrow$

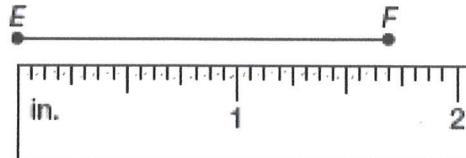
Name: _____

Date: _____

Station Review 2 Ch. 1.2

1. Find the length of the EF .

$1\frac{11}{16}$ in



2. Find the value of XP if x is between p and q . $XQ = 3k$, $XP = 7k - 2$, and $PQ = 6k + 16$

$$\begin{aligned}PQ &= XQ - XP \\7k - 2 + 3k &= 6k + 16 \\10k &= 6k + 18 \\4k &= 18 \\k &= 4.5\end{aligned}$$

$$\begin{aligned}XP &= (7)(4.5) - 2 \\&= 31.5 - 2 \\&= 29.5\end{aligned}$$

$$XP = 29.5$$

3. Find the value of XP if x is between p and q . $XQ = 13$, $XP = 5x - 3$ and $PQ = 40$

$$\begin{aligned}PQ &= XQ - XP \\40 &= 13 - (5x - 3) \\40 &= 13 - 5x + 3 \\40 &= 16 - 5x \\5x &= 30 \\x &= 6\end{aligned}$$

$$\begin{aligned}XP &= 5(6) - 3 \\&= 30 - 3 \\&= 27\end{aligned}$$

Name: Kley
Station Review 3 Ch. 1.3

Date: _____

1. Find the distance between $A(-3, 1)$ and $B(7, 13)$.

$$\begin{aligned} AB &= \sqrt{10^2 + 12^2} \\ &= \sqrt{100 + 144} \\ &= \sqrt{244} = \sqrt{4 \cdot 61} \neq 2\sqrt{61} \approx 15.6 \end{aligned}$$

2. Find the midpoint of the given endpoints $L(-3, 16)$ and $M(15, 4)$.

$$\begin{aligned} M &= \left(\frac{-3+15}{2}, \frac{16+4}{2} \right) \\ &= \left(\frac{12}{2}, \frac{20}{2} \right) \end{aligned}$$

$$M = (6, 10)$$

3. Find the coordinates of the missing endpoint if P is the midpoint of \overline{NQ} where $N(2, 0)$ and

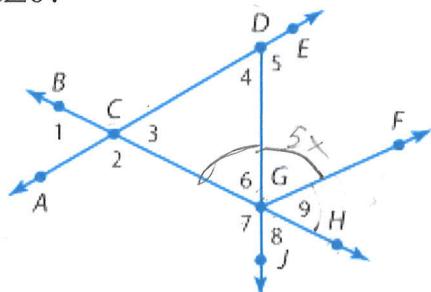
$$\begin{aligned} P(5, 2) &= \left(\frac{x+2}{2}, \frac{y+0}{2} \right) & (8, 4) \\ 5 &= \frac{x+2}{2} & 2 = \frac{y+0}{2} \\ 10 &= x+2 & 4 = y \\ 8 &= x \end{aligned}$$

Name: _____ Date: _____

Station Review 4 Ch. 1.4

1. Use the diagram if \overrightarrow{GF} bisects $\angle DGH$ and $\angle DGF = 50^\circ$, what is the $m\angle 6$?

$$\begin{aligned} \angle 6 + \angle DGF + \angle 9 &= 180^\circ \\ \angle 6 + 50 + 50 &= 180 \\ \angle 6 + 100 &= 180 \\ \angle 6 &= 80^\circ \end{aligned}$$

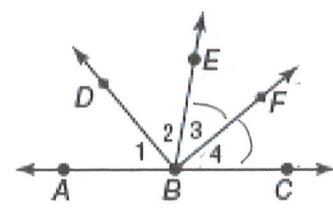


2. Use the diagram if \overrightarrow{DG} bisects $\angle CGF$ and $\angle CDG = 4x + 10$ and $\angle DGF = 5x$. Find the value of x and the measure of $\angle CGF$.

$$\begin{aligned} 4x + 10 &= 5x \\ 10 &= x \\ \angle CGF &= 4(10) + 10 + 5(10) \\ &= 40 + 10 + 50 \\ \angle CGF &= 100 \end{aligned}$$

3. \overrightarrow{BA} and \overrightarrow{BC} are opposite rays and \overrightarrow{BF} bisects $\angle CBE$. If $m\angle EBF = 6x + 4$ and $m\angle CBF = 7x - 2$, find the $m\angle EBF$.

$$\begin{aligned} 6x + 4 &= 7x - 2 \\ 6x + 6 &= 7x \\ 6 &= x \\ \angle EBF &= 6(6) + 4 \\ &= 36 + 4 \\ \angle EBF &= 50 \end{aligned}$$



Name: Kay

Date: _____

Station Review 5 Ch. 1.5

1. Find the value of x and y so that $\overrightarrow{NR} \perp \overrightarrow{MQ}$.

$$9y + 18 = 90$$

$$9y = 72$$

$$\boxed{y = 8}$$

$$5x + x = 90$$

$$6x = 90$$

$$\boxed{x = 15}$$

2. Name two vertical angles and a linear pair.

Vertical: $\angle MSN, \angle RSQ$

Linear pair: $\angle MSN, \angle NSQ$ or $\angle MSR, \angle RSQ$

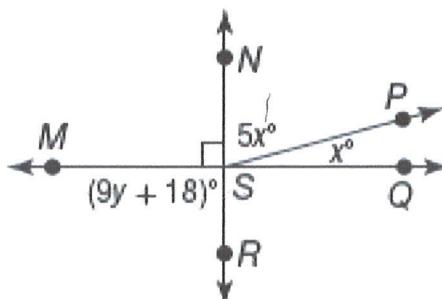
3. Two angles are complementary. The measure of one angle is 21 more than twice the measure of the other angle. Find the measures of the angles.

$$\begin{aligned} x + 21 + 2x &= 90 \\ 21 + 3x &= 90 \\ 3x &= 69 \end{aligned}$$

$$x = 23$$

$$\begin{aligned} \angle 1 &= 23^\circ \\ \angle 2 &= 67^\circ \end{aligned}$$

$$\begin{aligned} \angle 1 &= x & \angle 2 &= 21 + 2x \\ & & & 21 + 2(23) \\ & & & 21 + 46 \\ & & & = 67 \end{aligned}$$



Name: _____

Date: _____

Station Review 6 Ch. 1.6

1. The length and width of the rectangle are doubled. Find the perimeter of the rectangle with the new dimensions and explain what happens to the perimeter.

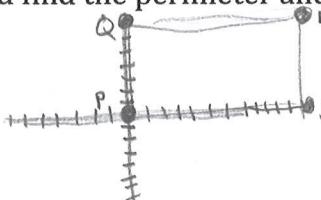
$$\begin{aligned} P &= 2(6) + 2(8) \\ &= 12 + 16 \\ &= 28 \end{aligned}$$

When you double
the length and width
the perimeter doubles
as well.

$$\begin{aligned} P &= 2(3) + 2(4) \\ &= 6 + 8 \\ &= 14 \end{aligned}$$

3 ft = 6

2. Graph the figure with the given vertices $P(0,0)$, $Q(0,7)$, $R(12,7)$, and $S(12,0)$. Name the figure and find the perimeter and area.



Quadrilateral

$$\begin{aligned} QR &= 12 \\ RS &= 7 \\ PS &= 12 \\ PQ &= 7 \end{aligned}$$

$$\begin{aligned} P &= 2(12) + 2(7) \\ &= 24 + 14 \\ &= 38 \text{ units} \end{aligned}$$

$$\begin{aligned} A &= 7(12) \\ A &= 84 \text{ units}^2 \end{aligned}$$

3. Find the perimeter and area of the polygon.

$$\begin{aligned} P &= 2.5 + 3 + 3.5 \\ P &= 19 \text{ cm} \end{aligned}$$

$$\begin{aligned} A &= \frac{1}{2}(3.5)(2) \\ A &= 3.5 \text{ cm}^2 \end{aligned}$$

