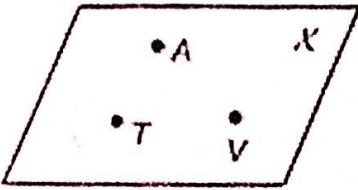


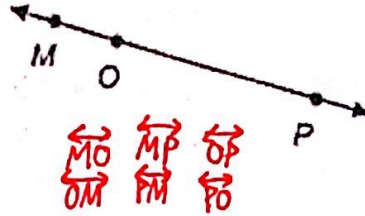
Study your foldable!!!

1. Name the plane in as many ways as possible.



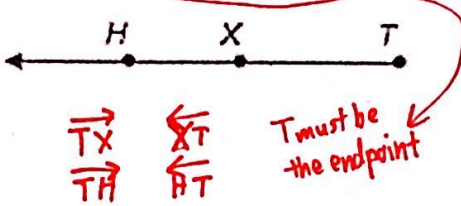
plane X
plane ATV
plane AVT
plane TAV
plane TVA
plane VAT
plane VTA

2. Name the line in as many ways as possible.



\overleftrightarrow{MO} \overleftrightarrow{MP} \overleftrightarrow{OP}
 \overleftrightarrow{OM} \overleftrightarrow{PM} \overleftrightarrow{PO}

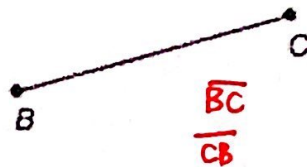
3. Name the whole ray in as many ways as possible.



\overrightarrow{TX} \overrightarrow{XT}
 \overrightarrow{TH} \overrightarrow{HT}

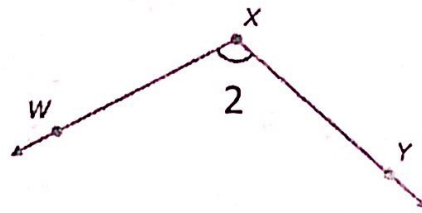
T must be the endpoint

4. Name the segment in as many ways as possible.



\overline{BC}
 \overline{CB}

5. Name the angle in as many ways as possible.



$\angle 2$ $\angle WXY$
 $\angle X$ $\angle YXW$

6. M is the midpoint of \overline{LN} . $LM = 2x+3$ and $MN = 17$. Find LN.

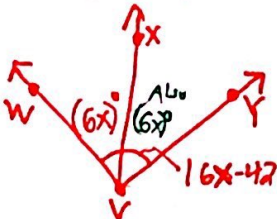


$17 \times 2 = 34$

$\boxed{LN = 34}$

($x=7$ but unnecessary for this problem)

7. \overline{VX} bisects $\angle WVY$, $m\angle WVX = (6x)^\circ$, and $m\angle WVY = (16x - 42)^\circ$. What is the value of x?



$6x + 6x = 16x - 42$

$12x = 16x - 42$

$-16x \quad -16x$

$-4x = -42$

$\frac{-4x}{-4} = \frac{-42}{-4}$

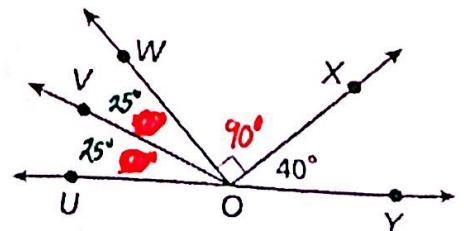
$x = 10\frac{3}{4}$

$\boxed{x = 10.5}$

8. If $m\angle UOV = 50^\circ$, and \overline{OV} bisects $\angle UOW$, what is the $m\angle VOY$?

$25 + 90 + 40$

$\boxed{m\angle VOY = 155^\circ}$



9. Find the midpoint of $(-6, 7)$ and $(8, -10)$.

$$\left(\frac{-6+8}{2}, \frac{7+(-10)}{2}\right) \rightarrow \left(\frac{2}{2}, \frac{-3}{2}\right) \rightarrow \boxed{(1, -1.5)}$$

10. M is the midpoint of \overline{RS} . R has coordinates $(-2, 10)$, and M has coordinates $(3, 5)$. What are the coordinates of S ?

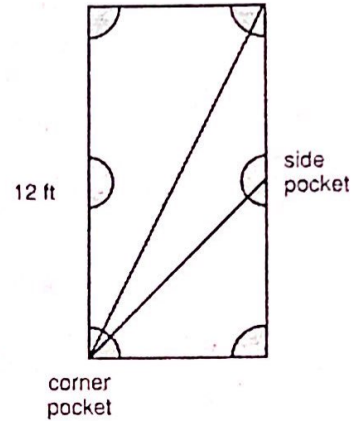
$(3, 5)$ is halfway in between $(-2, 10)$ and $(?, ?)$

Strategy 1: $\frac{-2+x}{2} = 3 \rightarrow -2+x=6 \rightarrow \boxed{x=8}$
 $\frac{10+y}{2} = 5 \rightarrow 10+y=10 \rightarrow \boxed{y=0}$ $\rightarrow \boxed{(8, 0)}$

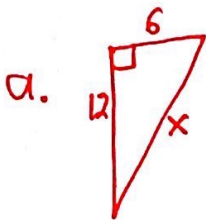
Strategy 2
 $R(-2, 10)$
 $+5 \rightarrow M(3, 5)$
 $+5 \rightarrow S(8, 0)$ $\rightarrow \boxed{(8, 0)}$

11. Snooker is a kind of pool or billiards played on a 6-foot-by-12-foot table. The side pockets are halfway down the rails (long sides).

a. Find the distance, to the nearest tenth of a foot (use a calculator), diagonally across the table from corner pocket to corner pocket.



b. Find the distance, to the nearest tenth of an inch (use a calculator), diagonally across the table from corner pocket to side pocket.



$$6^2 + 12^2 = x^2$$

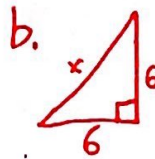
$$36 + 144 = x^2$$

$$180 = x^2$$

$$\sqrt{180} = x$$

$$\boxed{13.4 \approx x}$$

feet



$$6^2 + 6^2 = x^2$$

$$36 + 36 = x^2$$

$$72 = x^2$$

$$\sqrt{72} = x$$

$$8.48528 \text{ feet} \approx x$$

$$\times \frac{12 \text{ inches}}{1 \text{ foot}}$$

$$\boxed{\approx 101.8 \text{ inches}}$$