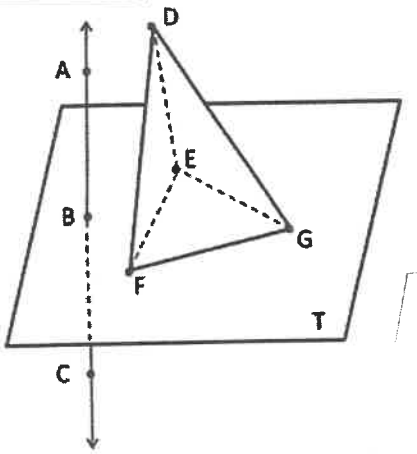
Name:_____ Date:_____ Class Period:_____

# Module 1 TEST: Geometric Basics

(1) How many planes are in the figure?

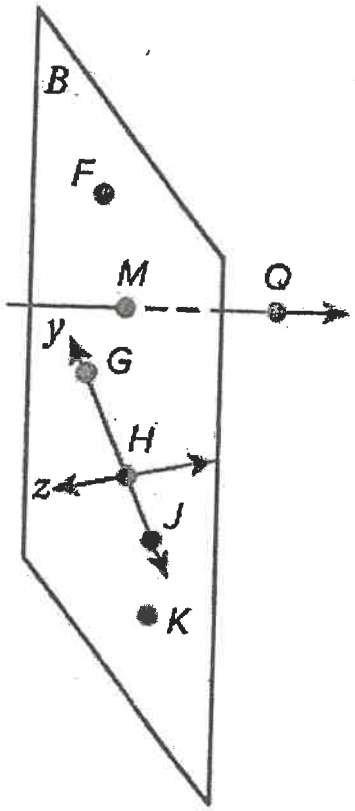



(2) What is the intersection of Plane T and Line AC?

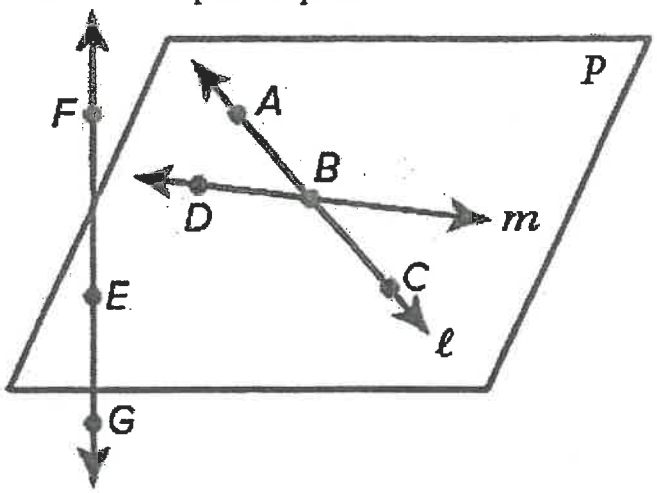
(3) What is another way to name Plane B?

(4) Name the intersection of lines $y$ and $z$.

4




(5) Which is not a point in plane $P$?

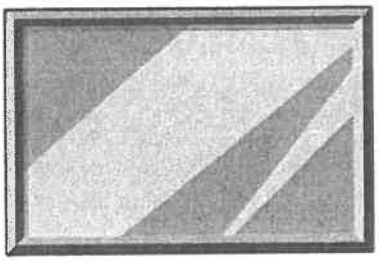



- A
- B
- E
- G

6 What are the three undefined terms in Geometry?

- ☐ Bisect
- ☐ Plane
- ☐ Segment
- ☐ Angle
- ☐ Point
- ☐ Line
- ☐ Congruence

7 Fill in the blanks using the available answer choices.
Choose the correct geometric term modeled by the object.

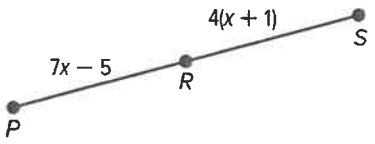


Blank 1 options
- line
- plane
- point

mirror

_____
(Blank 1)

8 What is the length of $\overline{PS}$, when $R$ is the midpoint of $\overline{PS}$?



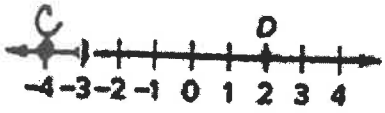

9 What is the length of $\overline{AZ}$? Use the following information:

$A$ is between $Y$ and $Z$, $YA = 22$,
$AZ = 16x$, and $YZ = 166$.

10 $B$ is between $A$ and $C$. If $AB = x + 2$, $BC = 2x - 3$, and $AC = 5x - 7$, what is $AB$?

$AB =$ _____

11 What is the midpoint between points C and D?

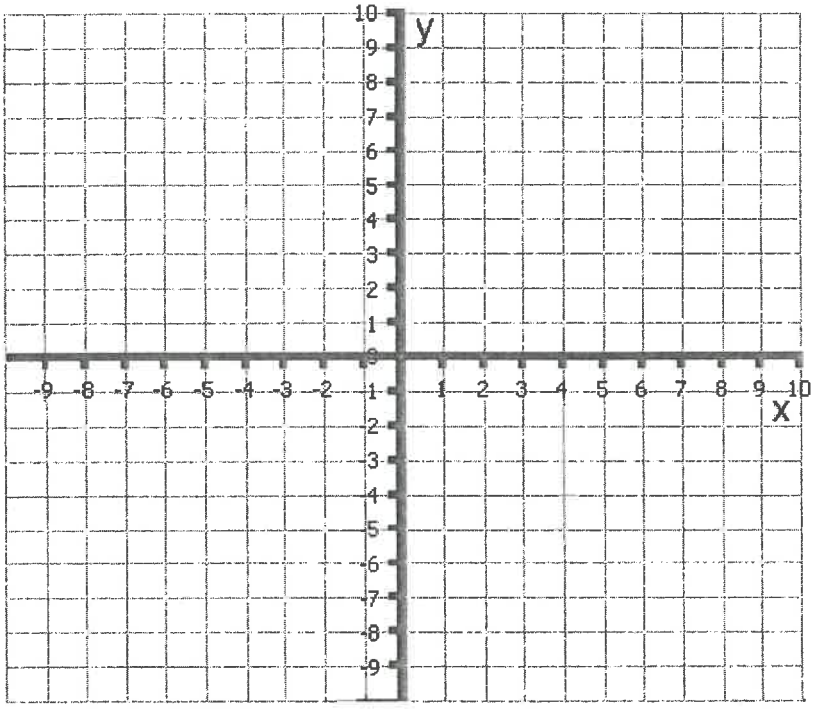


(12) (12)

Find the coordinates of the midpoint of a segment with the endpoints (9, −3) and (5, 1).

(_____, _____)

| Midpoint Formula |
| --- |
| $(x_M, y_M) = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$ |




(13) (13)

Find the coordinates of the missing endpoint if $B$ is the midpoint of $\overline{AC}$.

$C(-5, 4)$, $B(-2, 5)$

$A$(_____, _____)

