## Refer to the figure.


16. Name the intersection of lines $m$ and $t$.

## SOLUTION:

The two lines $m$ and $t$ intersect at the point $C$ on the plane $R$.
18. Are points $F, M, G$, and $P$ coplanar? Explain.

## SOLUTION:

Coplanar points are points that lie in the same plane. Here, the points $G$ and $P$ lie on the plane $Q$. But the point $M$ lies between the planes $Q$ and $R$ and the point $F$ lies on the plane $R$.

20 . What is another name for line $t$ ?

## SOLUTION:

There are two points $C$ and $E$ marked on the line $t$. So, the line $t$ can also be named as $\stackrel{\rightharpoonup}{C E}$.

Name the geometric term(s) modeled by each object.
22.


## SOLUTION:

The tip of a pen denotes a location. So, it models a point.
24.


## SOLUTION:

The chessboard is a flat surface that extends in all directions. So, it is a plane. Also it has lines that intersect on the plane. So, it also models intersecting lines.
26. a blanket

## SOLUTION:

A blanket is a flat surface that extends in all directions. So, it models a plane.
28. a telephone pole

## SOLUTION:

A telephone pole models a line.

## Draw and label a figure for each relationship.

34. Points $X$ and $Y$ lie on $\stackrel{\rightharpoonup}{C D}$.

## SOLUTION:

Draw a line $\overrightarrow{C D}$ and plot two points $X$ and $Y$ on the line.

52. OPTICAL ILLUSION Name two points on the same line in the figure. How can you support your assertion?


## SOLUTION:

Using a ruler we can figure out that the line containing the point $C$ is an extension of the line containing the point $A$. Therefore, the points $A$ and $C$ are collinear.

