State whether each best models a point, line, or plane.

1. a taut piece of thread: $\qquad$
2. a knot in a piece of thread: $\qquad$
3. a piece of cloth: $\qquad$
4. the corner of a room: $\qquad$
5. the blue rules on your notebook paper: $\qquad$
6. your desktop: $\qquad$
7. each color dot, or pixel, on a video-game screen: $\qquad$
8. a telecommunications beam to a satellite in space: $\qquad$
9. the crease in a folded sheet of wrapping paper:

Refer to the figure at right to name each of the following.
10. a line containing point $A$ : $\qquad$
11. a line passing through $B$ : $\qquad$

14. a plane containing points $B, C$, and $E$ :
15. a plane containing lines $k$ and $q$ :

Refer to the figure below to answer each question. The figure is a rectangular prism formed by six planes. Only a portion of each plane is shown.

| 16. Name the highlighted plane in the rectangular <br> prism: |
| :--- |
| 17. Name two points that are coplanar with points $\mathrm{B}, \mathrm{H}$, <br> and $\mathrm{K}:$ <br> 18. Name two lines that intersect at $\mathrm{E}:$ |
| 19. Which two planes intersect in $\overleftrightarrow{C D}$ ? |
| 20. Name two lines that lie in plane GEC: |

21. Name a plane and a line that intersect at A :
$\qquad$
22. Which point(s) do planes ABC, CDE, and AGE have in common? $\qquad$
Using the figure at right, determine if each set of points is collinear.

| 23. A, D, E | $Y$ or $N$ |
| :--- | :--- |
| 24. B, C, D | $Y$ or $N$ |
| 25. B, C, F | $Y$ or $N$ |
| 26. A, E, C | $Y$ or $N$ |
| 27. F, B, D $Y$ or $N$ |  |




Using the figure above, answer each of the following.
28. Name plane $\boldsymbol{m}$ another way: $\qquad$
29. What is the intersection of plane $\boldsymbol{m}$ and $\overleftrightarrow{A E}$ ? $\qquad$
Explain:
30. What is the intersection of $\overleftrightarrow{A E}$ and $\overleftrightarrow{B D}$ ? $\qquad$ Explain:
31. Name a pair of opposite rays: $\qquad$
32. Name all segments shown with endpoint $C$. $\qquad$
33. Are F and A collinear? Why or why not? $\qquad$
$\qquad$
34. How many planes contain $B, C, \& D$ ? Explain:
35. How many planes contain $C, D, \& F$ ? Explain:

Using the figure at the right, answer each of the following questions.
36. What is the intersection of plane QRST and plane RSWV? $\qquad$ Explain:
37. What is the intersection of $\overleftrightarrow{U V}$ and plane QTXU? $\qquad$
Explain:

38. Name three lines that intersect at point $S$. $\qquad$
39. Name two planes that intersect at $\overleftrightarrow{T S}$. $\qquad$
40. Are Q, U, and V coplanar? Why or why not? $\qquad$
$\qquad$
41. Do $T$ and $R$ determine a line? Why or why not? $\qquad$
$\qquad$
42. Name all segments shown that contain $T$. $\qquad$

