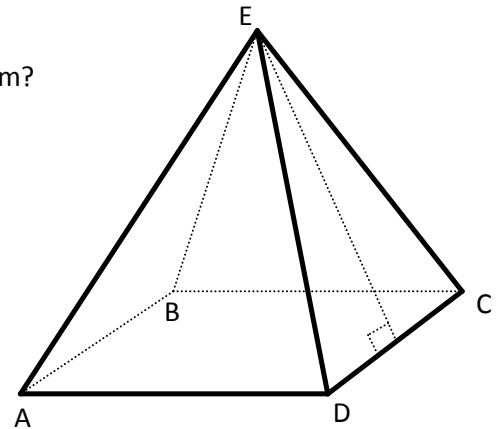


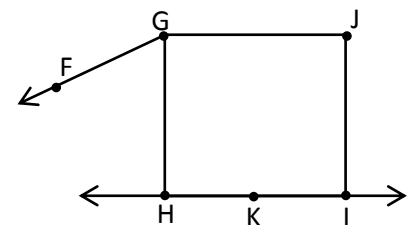
Answer each question as precisely and accurately as possible. When applicable, show all work.

**For #1-7, use the diagram to the right.**



1. Name a plane. What way of naming a plane isn't an option in this diagram?
2. Name three segments.
3. How many planes are shown?
4. Are A, D, and C collinear? Why or why not?
5. Are A, E, B, C coplanar?
  - a. Why or why not?
  - b. If not, name 4 points that are coplanar.
6. Name three segments that intersect at B.
7. Name the intersection of EBC and  $\overline{AB}$ .

**For #8-11, use the diagram to the right.**



8. Name the ray.
9. Name the line 2 different ways. What way of naming a line isn't an option for the line in this diagram?
10. Name the angle formed in the lower right corner in three ways.
11. Draw and label a diagram to show the following:  $\overrightarrow{ST}$  lies in ABC

For #12-16, circle Yes or NO.

12. Can the same ray be called  $\overrightarrow{AB}$  and  $\overrightarrow{BA}$ ?

YESNO
13. Can the same ray be called  $\overrightarrow{AB}$  and  $\overrightarrow{AC}$ ?

YESNO
14. Can the same segment be called  $\overline{AB}$  and  $\overline{BA}$ ?

YESNO
15. Can the same line be called  $\overleftrightarrow{AB}$  and  $\overleftrightarrow{BA}$ ?

YESNO
16. Can the same line be called  $\overleftrightarrow{AB}$  and  $\overleftrightarrow{BC}$ ?

YESNO

17. Fill in the table below.

Word	Sketch (with labels)	Name/Notation	Definition
Parallel Lines			
Midpoint			

For #18-22, use the diagram at the right. Circle Yes or NO.

18. Are C, T, and B collinear?

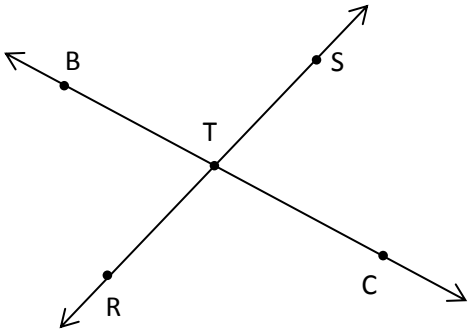
YESNO
19. Is  $\overleftrightarrow{RS}$  the same as  $\overleftrightarrow{RT}$ ?

YESNO
20. Is  $\overleftrightarrow{TR}$  the same as  $\overleftrightarrow{RT}$  ?

YESNO
21. Are R, T, & C collinear?

YESNO
22. Do four rays start at T?

YESNO



For #23-28, draw a diagram that includes all of the described features.

23. A, B, C, and D are collinear	24. A lies on line $m$
25. $\overrightarrow{AB} \perp \overrightarrow{CD}$	26. line $m$ lies in plane $\mathcal{B}$
27. $\angle CAT$ is a right angle	28. A, B, and C are coplanar, but D is not

For #29-34, use the diagram provided in the box with #29 to precisely answer each question.

<div>29. How many planes appear in this diagram?</div> <div>30. List two different names for the plane on the bottom.</div> <div></div>	<div>31. Name two objects that intersect at F.</div> <div>32. Are A, B, F, D, and C coplanar?</div> <div>33. Why or why not?</div> <div>34. What is the intersection of CAB and DFE?</div>
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