

Name \_\_\_\_\_

Date \_\_\_\_\_

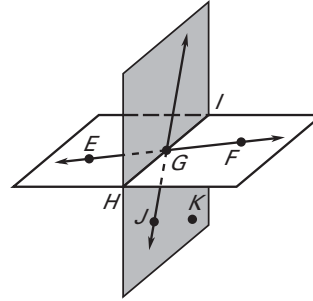
**LESSON**  
**1.1**

**Practice B**

*For use with pages 2–8*

Use the diagram to decide whether the given statement is *true* or *false*.

1. Points  $H$ ,  $I$ , and  $G$  are collinear.
2. Points  $H$ ,  $I$ , and  $J$  are coplanar.
3.  $\overrightarrow{EG}$  and  $\overrightarrow{FG}$  are opposite rays.
4. All points on  $\overrightarrow{GI}$  and  $\overrightarrow{GF}$  are coplanar.
5. The intersection of  $\overrightarrow{EF}$  and plane  $JKH$  is  $\overleftrightarrow{HI}$ .
6. The intersection of  $\overrightarrow{EF}$ ,  $\overleftrightarrow{HI}$ , and  $\overleftrightarrow{JG}$  is point  $G$ .
7. The intersection of plane  $EGH$  and plane  $JGI$  is point  $G$ .
8. The intersection of plane  $EFI$  and plane  $JKG$  is  $\overleftrightarrow{HG}$ .

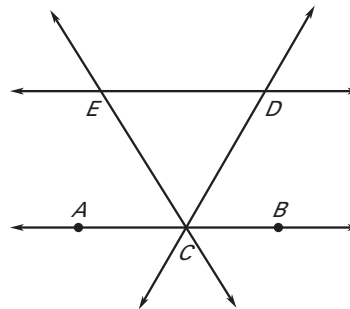


Sketch the figure described.

- |  |  |
|--|--|
| 9. Two rays that do not intersect              | 10. Three planes that intersect in one line    |
| 11. Three lines that intersect in three points | 12. A ray that intersects a plane in one point |

In Exercises 13–15, use the diagram.

13. Name 12 different rays.
14. Name 2 pairs of opposite rays.
15. Name 3 lines that intersect at point  $C$ .



16. Draw four noncollinear points  $A$ ,  $B$ ,  $C$ , and  $D$ . Then sketch  $\overline{AB}$ ,  $\overline{BC}$ , and  $\overleftrightarrow{AD}$ .
17. Sketch plane  $M$  intersecting plane  $N$ . Then sketch plane  $O$  so that it intersects plane  $N$ , but not plane  $M$ .

LESSON 1.1

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Name \_\_\_\_\_

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**LESSON 1.1** **Practice B** *continued*  
For use with pages 2–8

**You are given an equation of a line and a point. Use substitution to determine whether the point is on the line.**

18.  $y = 5x + 3$ ;  $A(1, 8)$       19.  $y = -x + 3$ ;  $A(6, 3)$       20.  $y = -3x - 6$ ;  $A(2, 0)$   
21.  $2x - y = 7$ ;  $A(3, -1)$       22.  $x + 6y = 40$ ;  $A(-10, 5)$       23.  $-x - 4y = -14$ ;  $A(-6, 2)$

**Graph the inequality on a number line. Tell whether the graph is a segment, a ray or rays, a point, or a line.**

24.  $x \geq 2$       25.  $2 \leq x \leq 5$



26.  $x \leq 0$  and  $x \geq 8$       27.  $|x| \leq 0$

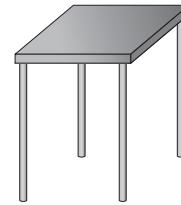


**28. Counter Stools** Two different types of stools are shown below.

- a. One stool rocks slightly from side to side on your kitchen floor. Which of the two stools could this possibly be? *Explain* why this might occur.  
b. Suppose that each stool is placed on a flat surface that is slightly sloped. Do you expect either of the stools to rock from side to side? *Explain* why or why not.



Three-legged stool



Four-legged stool

**29. Perspective Drawings** Recall from the text, that a perspective drawing is drawn using vanishing points.

- a. Does the drawing at the right represent a perspective drawing? *Explain* why or why not.  
b. Using heavy dashed lines, draw the hidden lines of the prism.  
c. Redraw the prism so that it uses two vanishing points.

