Name

Practice A

For use with pages 10-16

Draw a sketch and label as needed.

- **1.** Three collinear points, A, B, and C.
- **3.** Coplanar points *W*, *X*, *Y*, and *Z*.

2. \overrightarrow{MN} intersecting \overrightarrow{PQ} at point *R*. **4.** Opposite rays, \overrightarrow{JK} and \overrightarrow{JC} .

Decide whether the statement is true or false.

- 5. Point X lies on line m.
- 7. Point W lies on line m.
- **9.** Point *V* lies on line *l*.
- **11**. Point *Y* lies on line *l*.
- 6. X, Y, and Z are collinear. **8.** *X*, *Y*, and *Z* are coplanar.
- **10.** *V*, *Y*, and *X* are collinear.
- **12.** *V*, *Y*, and *X* are coplanar.



Name a point that is collinear with the given points.

13. <i>B</i> and <i>E</i>	14. <i>F</i> and <i>H</i>
15. <i>D</i> and <i>G</i>	16. <i>A</i> and <i>C</i>
17. <i>H</i> and <i>E</i>	18. <i>G</i> and <i>C</i>
19. A and D	20. <i>B</i> and <i>C</i>





Name a point that is coplanar with the given points.

22. <i>M</i> , <i>N</i> , and <i>R</i>
24. <i>T</i> , <i>Q</i> , and <i>R</i>
26. <i>T</i> , <i>S</i> , and <i>O</i>
28. <i>O</i> , <i>P</i> , and <i>M</i>

In Exercises 29–34, complete the sentence.

- **29.** Collinear points are points that ? .
- **30.** Coplanar points are points that ? .
- **31.** \overline{XY} consists of the endpoints X and Y and all points on the line \overrightarrow{XY} that lie _____.
- **32.** \overrightarrow{MN} consists of the initial point *M* and all points on the line \overrightarrow{MN} that lie __?__.
- **33.** Two rays or segments are collinear if they $_?$.
- **34.** \overrightarrow{PQ} and \overrightarrow{PT} are opposite rays if $\underline{?}$.
- **35.** Explain the difference between \overrightarrow{BC} and \overrightarrow{CB} .

26