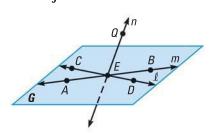
CHAPTER TEST

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

- **1.** Point *A* lies on line *m*.
- **2.** Point D lies on line n.
- **3.** Points *B*, *C*, *E*, and *Q* are coplanar.
- **4.** Points *C*, *E*, and *B* are collinear.
- **5.** Another name for plane *G* is plane *QEC*.

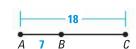


Find the indicated length.

6. Find *HJ*.



7. Find *BC*.



8. Find *XZ*.

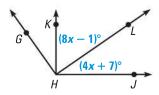


In Exercises 9-11, find the distance between the two points.

- **9.** T(3, 4) and W(2, 7)
- **10.** C(5, 10) and D(6, -1)
- **11.** M(-8, 0) and N(-1, 3)
- **12.** The midpoint of \overline{AB} is M(9, 7). One endpoint is A(3, 9). Find the coordinates of endpoint B.
- **13.** Line *t* bisects \overline{CD} at point M, CM = 3x, and MD = 27. Find CD.

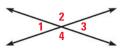
In Exercises 14 and 15, use the diagram.

14. Trace the diagram and extend the rays. Use a protractor to measure $\angle GHJ$. Classify it as *acute*, obtuse, right, or straight.



- **15.** Given $m \angle KHJ = 90^{\circ}$, find $m \angle LHJ$.
- **16.** The measure of $\angle QRT$ is 154°, and \overrightarrow{RS} bisects $\angle QRT$. What are the measures of $\angle QRS$ and $\angle SRT$?

In Exercises 17 and 18, use the diagram at the right.



- 17. Name four linear pairs.
- 18. Name two pairs of vertical angles.

to buy this carpet? Explain.

- 19. The measure of an angle is 64°. What is the measure of its complement? What is the measure of its supplement?
- 20. A convex polygon has half as many sides as a concave 10-gon. Draw the concave polygon and the convex polygon. Classify the convex polygon by the number of sides it has.
- 21. Find the perimeter of the regular pentagon shown at the right.

