Name _____

Another Look!

Here are some important geometric terms.

X
•

Point
A point is an exact location in space. This is point *X*.

A ——————————— B

Line
A line is a straight path of points that goes on and on in both directions. This is line *AB*.
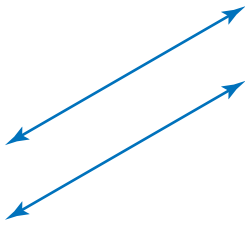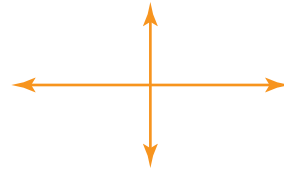
Parallel lines
Parallel lines never intersect.
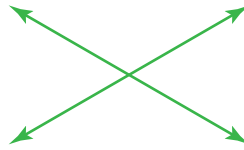
Intersecting lines
Intersecting lines pass through the same point.
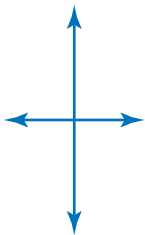
Perpendicular lines
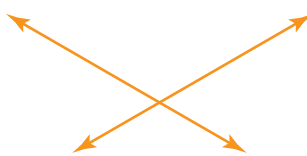Perpendicular lines form right angles.

In **1** through **3**, use geometric terms to describe what is shown. Be as specific as possible.
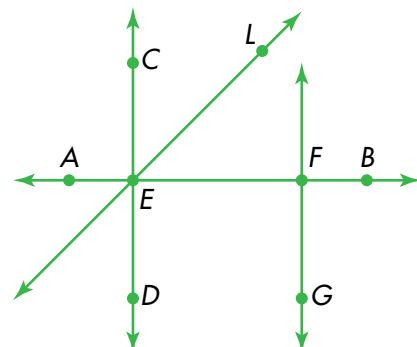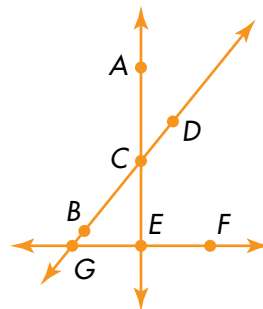
1.

2.

3.

4. Name three different lines.
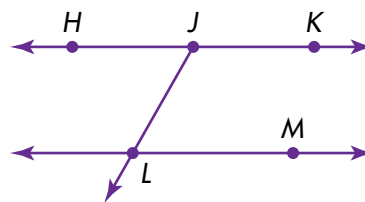
5. Name a pair of parallel lines.

In **6** through **8**, use the diagram to the right.

6. Name two lines.

7. Name two lines that are perpendicular.

8. Draw a Picture Draw a line *HF* on the diagram that is parallel to line *AE* and perpendicular to line *GF*.

9. Which two lines are parallel?
⭐
A Line *HK* and line *JL*   **C** Line *HJ* and line *JK*
B Line *HJ* and line *JL*   **D** Line *HJ* and line *LM*

10. Reason What geometric term describes the relationship between line *JL* and line *LM*?

11. Draw a Picture Draw and label parallel lines *XY* and *RS*. Then draw and label line *TS* so that it is perpendicular to both lines *XY* and *RS*. Draw point *Z* on line *TS*.

12. Connect Describe a point. What could you use as a model of a point?

13. Construct Arguments Alexandra says that if two lines share a point, then they cannot be parallel. Do you agree? Explain.

14. Extend Your Thinking Line *AB* is parallel to line *CD*. Line *AB* is perpendicular to line *EF*. What is the relationship between line *CD* and line *EF*?