Lines, Line Segments, and Rays



0-4

I will identify, describe, and classify lines, line segments, and rays.

New Vocabulary

line ray endpoint

line segment

parallel

intersecting

perpendicular

Farmers often plant crops like corn in rows. The rows resemble line segments.



Lines, Rays, Segments

KEY CONCEPTS

Words A line is a straight set of points that extend in opposite directions without ending.	Model $A \qquad B$ line AB or \overrightarrow{AB}
Words A ray is a part of a line that has one endpoint and extends in one direction without ending.	Model endpoint A $Bray AB or \overrightarrow{AB}$
Words A line segment is a part of a ine between two endpoints.	Model endpoint A A A B AB



EXAMPLES Identify Lines, Rays, or Line Segments

Identify each figure.



The figure extends in opposite directions without ending. Line XY or \overleftarrow{XY} .



This figure has one endpoint and extends in one direction without ending. Ray *AB* or \overrightarrow{AB} .



You can describe lines, rays, and line segments by the way they meet or cross each other.



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Real-World PROBLEM SOLVING

Geography On a map, streets resemble line segments. Use the map to the right to answer Exercises 12–15.

- 12. Identify two streets that are parallel to Oak Street.
- **13.** Tell whether Center Street and Johnston Street are parallel, intersecting, or perpendicular lines. Explain.
- 14. Identify two streets that are parallel.
- **15.** Are there any streets that are intersecting? Explain.

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Spiral Review

For Exercises 24 and 25, use the table. (Lesson 10-3)

- **24.** Mr. Ito's class is playing a game. The table shows how many playing pieces are needed. Copy and complete the table.
- **25.** Explain how to find the number of pieces needed if you know the number of students playing.

Identify each polygon. (Lesson 10-2)

Game Pieces Needed

Number of Pieces

36

63

72

90

Students

4

7

9

10