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A. What are two other names for this line?

B. Name at least 2 line segments that are part of RT.

A ray is part of a line. It starts at one point and then goes on forever in only one direction.

3. This is ray XY. We can write ray XY like this: XY. A ray is named by its endpoint first, followed by another point on the ray. What is another name for this ray?

4. Name the two rays that make up ∠R below.

Use the figure below to answer Questions 5-11.

5. Name two lines.

7. Name two lines.

7. Name two lines.

9. At what point do you see a right angle?

9. At what point do you see an acute angle?

10. Which two lines meet to make an acute angle?

11. Which two lines meet to make a right angle?

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Questions 1–18 (SG pp. 373–376)

Note: Some line names will vary.

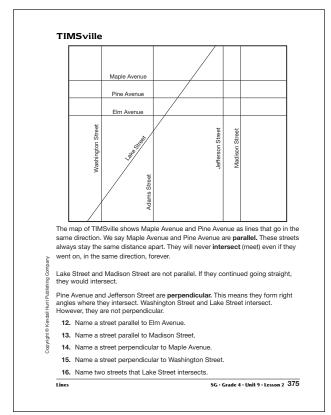
- I. \overline{BC} and \overline{AC}
- **2. A.** \overrightarrow{RS} and \overrightarrow{ST}
 - **B.** Possible answers: \overline{RS} , \overline{ST} , \overline{RT}
- 3. \overrightarrow{XZ}
- **4.** \overrightarrow{RS} and \overrightarrow{RT}
- **5.** Possible answers: AB, AC, BC, BE, BG, EG, EF, DE, DF
- **6.** Possible answers: \overrightarrow{AC} , \overrightarrow{BG} , \overrightarrow{DF}
- 7. Possible answers: \overrightarrow{AB} , \overrightarrow{AC} , \overrightarrow{BC} , \overrightarrow{CB} , \overrightarrow{BA} , \overrightarrow{CA} , \overrightarrow{BE} , \overrightarrow{EB} , \overrightarrow{BG} , \overrightarrow{GB} , \overrightarrow{EG} , \overrightarrow{GE} , \overrightarrow{EF} , \overrightarrow{FE} , \overrightarrow{FD} , \overrightarrow{DE} , \overrightarrow{ED} , \overrightarrow{DF} , \overrightarrow{FD}
- 8. Point B
- **9.** Point E
- 10. DF and BG
- II. \overrightarrow{AC} and \overrightarrow{BG}

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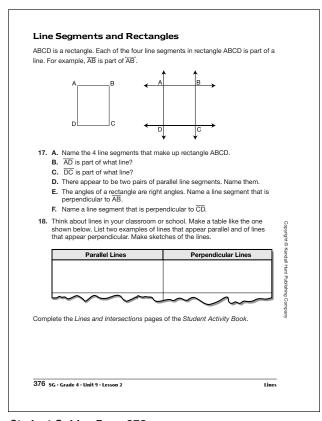
- 12. Pine Ave. or Maple Ave.
- 13. Jefferson St., Adams St., or Washington St.
- **14.** Washington St., Adams St., Jefferson St., or Madison St.
- 15. Maple Ave., Pine Ave., or Elm Ave.
- **16.** Students name two of the following: Washington St., Adams St., Elm Ave., Pine Ave., or Maple Ave. If Lake, Jefferson, and Madison Streets continue, Lake will intersect both Jefferson and Madison.
- 17. A. \overline{AB} , \overline{BC} , \overline{CD} , and \overline{DA}
 - $\mathbf{B}. \stackrel{\longleftrightarrow}{\mathrm{AD}}$
 - C. DC
 - **D.** \overline{AB} & \overline{CD} , \overline{DA} & \overline{BC}
 - **E.** \overline{DA} or \overline{BC}
 - **F.** \overline{DA} or \overline{BC}

windowpane.

18. Examples will vary. Examples of perpendicular lines might include the lines forming the corner of square tiles on the floor or the lines forming the corners of a rectangular piece of paper.
Examples of parallel lines might include the parallel lines painted in a parking lot or the parallel lines formed on opposite sides of a

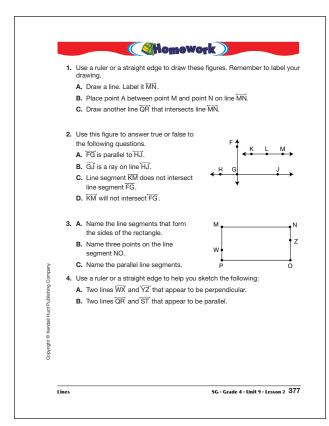


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Answer Key • Lesson 2: Lines



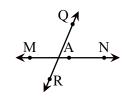
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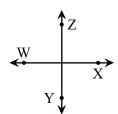
Homework (SG p. 377)

Questions 1-4

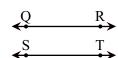
I. Drawings will vary.



- **2. A.** F
 - B. T
 - C. T
 - D. F
- 3. A. \overline{MN} , \overline{NO} , \overline{OP} , \overline{PM}
 - **B.** Point N, Point Z, Point O
 - **C.** \overline{MN} is parallel to \overline{OP} ; \overline{MW} , \overline{WP} , and \overline{MP} are parallel to \overline{NZ} , \overline{ZO} , and \overline{NO} .
- **4.** Drawings will vary.
 - A.



B.

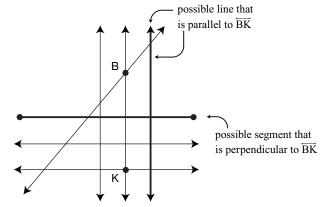


Student Activity Book

Lines and Intersections

Questions 1–8 (SAB p. 321)

- 1. Answers will vary. Possible answers include: \overrightarrow{AN} , \overrightarrow{FJ} , \overrightarrow{LA} , \overrightarrow{KB}
- **2.** Answers will vary. Possible answers include: AB, DH, FI, MK
- 3. \overrightarrow{AL} and \overrightarrow{BK} ; \overrightarrow{FJ} and \overrightarrow{NK} [Note: names for the lines may vary.]
- **4.** Answers will vary. Possible answers include: \overrightarrow{AL} and \overrightarrow{NK} ; \overrightarrow{BK} and \overrightarrow{FJ}
- **5.** Figure IHKL
- **6. A.** No intersection
 - B. \overrightarrow{AF} and \overrightarrow{HI} intersect
 - **C.** No intersection
 - **D.** \overrightarrow{LK} and \overrightarrow{AB} intersect
- **7–8.** Answers will vary.



Nam	e	Date
	Lines and Ir	ntersections
The f	gure below shows many lines, line se	egments, and rays.
2.	Identify and name two rays in this fill Identify and name two line segment	gure
3.	Name two pairs of lines that appear	to be parallel.
5.	Name two lines that appear to be pe	erpendicular
	Name a shape that appears to be a	rectangle
	Draw a circle around the pairs that i	, ,
	A. LN and FB	B. \overrightarrow{AF} and \overrightarrow{HI} D. \overrightarrow{IK} and \overrightarrow{AB}
	C. IH and AF	D. LK and AB
<u>\$</u> 7.	Sketch a line that is parallel to \overrightarrow{BK} .	
8.	Sketch a line segment that is perper	ndicular to BK.
Lines		SAB · Grade 4 · Unit 9 · Lesson 2

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