

Lesson 10.3

Name _____

Parallel Lines and Perpendicular Lines

COMMON CORE STANDARD CC.4.G.1

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Use the figure for 1–3.

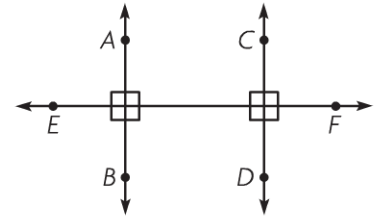
1. Name a pair of lines that appear to be perpendicular.

Think: Perpendicular lines form right angles.
 \overleftrightarrow{AB} and \overleftrightarrow{EF} appear to form right angles.

\overleftrightarrow{AB} and \overleftrightarrow{EF}

2. Name a pair of lines that appear to be parallel.

3. Name another pair of lines that appear to be perpendicular.



Draw and label the figure described.

4. \overleftrightarrow{MN} and \overleftrightarrow{PQ} intersecting at point R
5. $\overleftrightarrow{WX} \parallel \overleftrightarrow{YZ}$

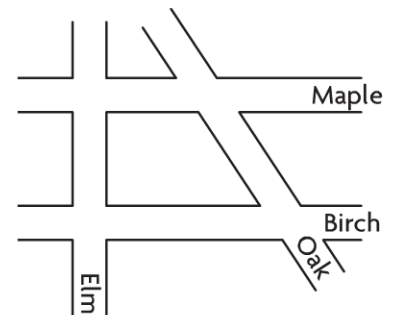
6. $\overleftrightarrow{FH} \perp \overleftrightarrow{JK}$

Problem Solving REAL WORLD

Use the street map for 7–8.

7. Name two streets that intersect but do not appear to be perpendicular.

8. Name two streets that appear to be parallel to each other.

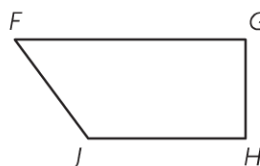


Lesson Check (CC.4.G.1)

1. Which capital letter appears to have perpendicular line segments?

- (A) N
- (B) O
- (C) T
- (D) V

2. In the figure, which pair of line segments appear to be parallel?



- (A) \overline{FG} and \overline{GH}
- (B) \overline{FJ} and \overline{GH}
- (C) \overline{FG} and \overline{JH}
- (D) \overline{JH} and \overline{FJ}

Spiral Review (CC.4.NBT.5, CC.4.NBT.6, CC.4.NF.2, CC.4.G.2)

3. Nolan drew a right triangle. How many acute angles did he draw? (Lesson 10.2)

- (A) 0
- (B) 1
- (C) 2
- (D) 3

4. Mike drank more than half the juice in his glass. What fraction of the juice could Mike have drunk? (Lesson 6.6)

- (A) $\frac{1}{3}$
- (B) $\frac{2}{5}$
- (C) $\frac{3}{6}$
- (D) $\frac{5}{8}$

5. A school principal ordered 1,000 pencils. He gave an equal number to each of 7 teachers until he had given out as many as possible. How many pencils were left?

(Lesson 4.11)

- (A) 2
- (B) 4
- (C) 6
- (D) 142

6. A carton of juice contains 64 ounces. Ms. Wilson bought 6 cartons of juice. How many ounces of juice did she buy?

- (A) 364 ounces
- (B) 370 ounces
- (C) 384 ounces
- (D) 402 ounces