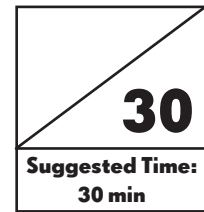


TEST PREP
10

Perpendicular and Parallel Line Segments



Multiple Choice

(5 × 2 points = 10 points)

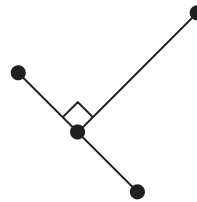
Fill in the circle next to the correct answer.

1. Which of the following shows a pair of perpendicular lines?

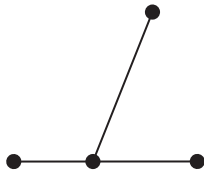
(A)



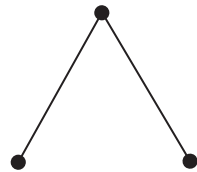
(B)



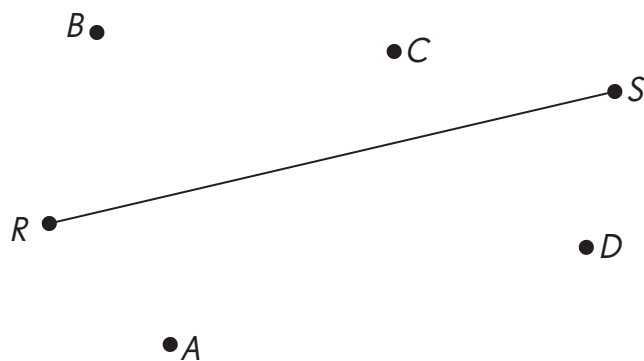
(C)



(D)



2. Which pair of points must be joined to draw a line segment that is parallel to \overline{RS} ?



(A)

A and B

(B)

B and C

(C)

A and C

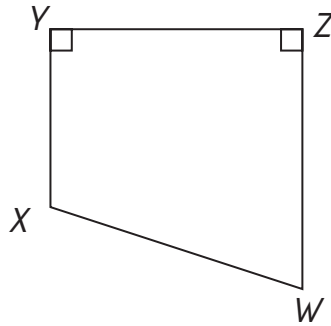
(D)

A and D

Name: _____

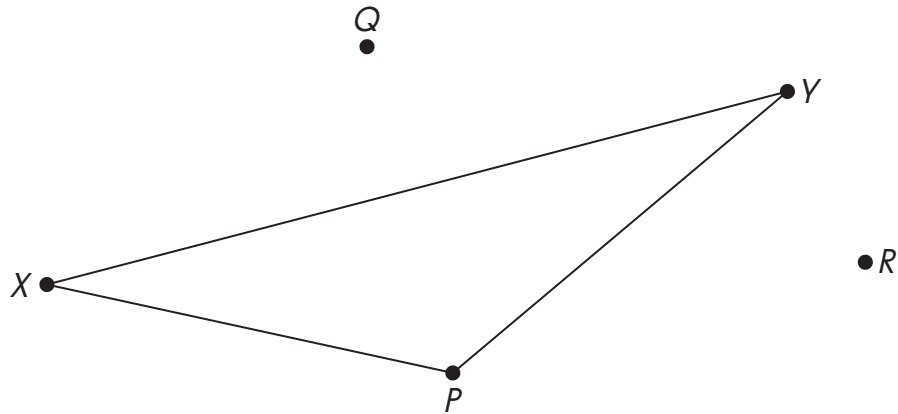
Date: _____

3. Which of these line segments is a horizontal line segment?



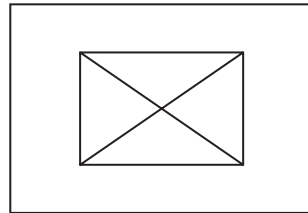
- (A) \overline{WX} (B) \overline{YZ} (C) \overline{WZ} (D) \overline{XY}

4. Which points must be joined to draw a line segment perpendicular to \overline{XY} through point P ?



- (A) P and Q (B) P and R (C) P and Y (D) P and X

5. How many vertical line segments are there in the diagram?

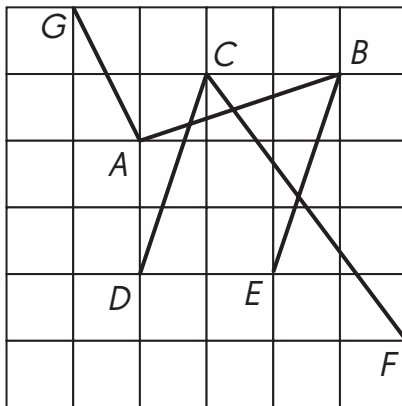


- (A) 10 (B) 8 (C) 4 (D) 2

Short Answer

(3 × 2 points = 6 points, Question 9 = 4 points)

6. Which pair of line segments is parallel?

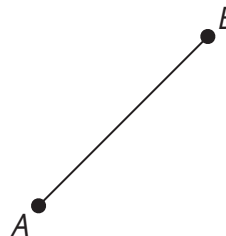


7. Use a protractor or a drawing triangle to draw a line segment perpendicular to \overline{AB} through point X .

a. • X



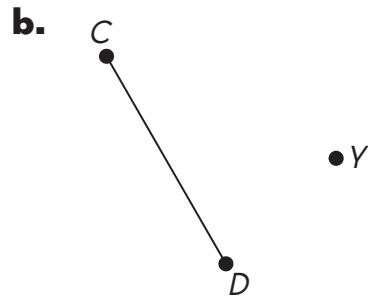
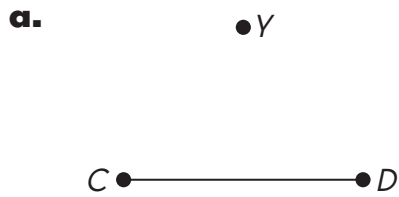
b. • X



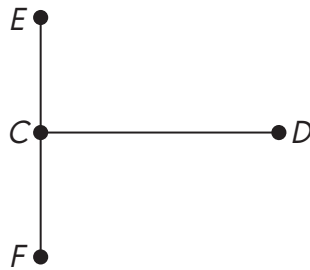
Name: _____

Date: _____

8. Use a drawing triangle and a straightedge to draw a line segment parallel to \overline{CD} through point Y .



9. \overline{CD} is a horizontal line segment and \overline{EF} is a vertical line segment. Draw a line segment parallel to \overline{CD} through point E .

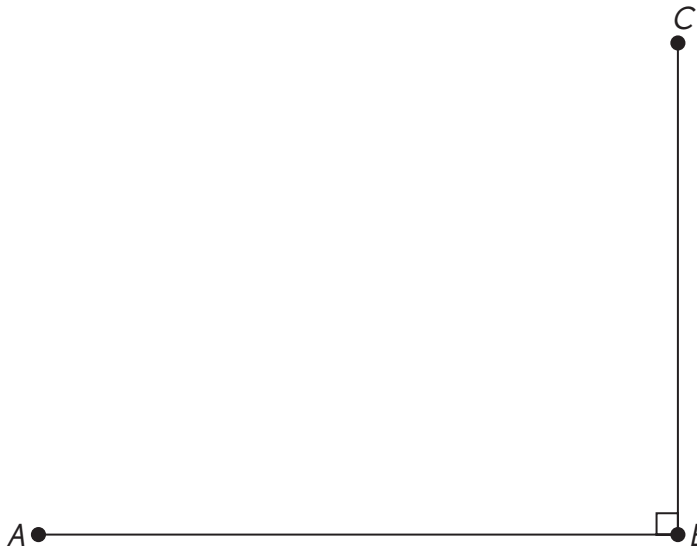


Extended Response

(2 × 5 points = 10 points)

Use a protractor or a drawing triangle and a straightedge.

- 10.** **a.** Draw a line segment perpendicular to \overline{AB} passing through point A . Name one end point of this line segment D .
- b.** Draw a line segment parallel to \overline{AB} that passes through point D and intersects \overline{BC} .



- c.** What do you notice about the two line segments you have drawn?

- d.** What is the name of the shape formed?

Name: _____

Date: _____

11. In the diagram, identify a pair of parallel line segments and a pair of perpendicular line segments.

