

Grade 5 · The Coordinate Plane · Test Answer Key

Common Core 5.G.A.1, 5.G.A.2 · mathovore.fr

Use this answer key to score the coordinate plane test out of 20 points. Each solution includes a scoring guide that shows how the points are awarded. Give partial credit only where the guide allows it.

Grade 5 Common Core: 5.G.A.1 · 5.G.A.2

Question 1: Vocabulary (2 points)

(a) The x-axis.

(b) $(0,0)$.

Scoring: 1 point for each correct answer.

Question 2: Reading points (2 points)

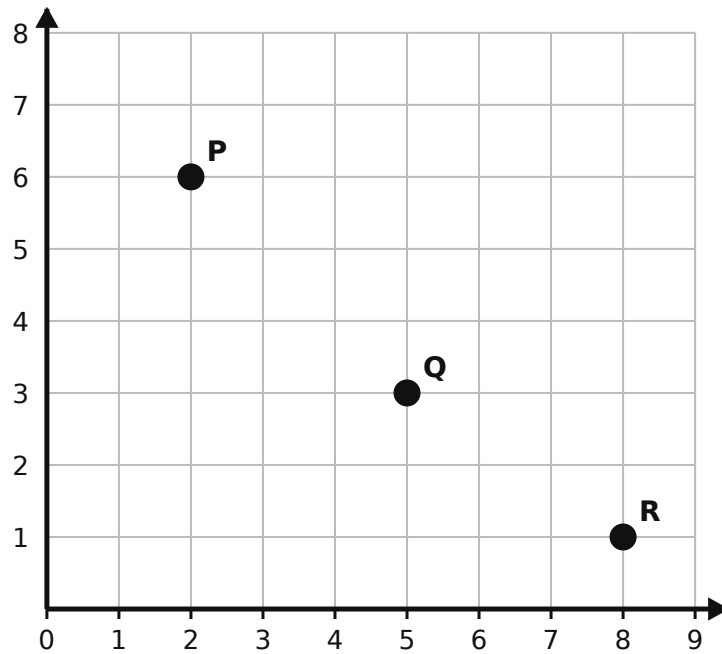
(a) A $(1,6)$, B $(4,2)$.

(b) C $(7,5)$, D $(5,0)$.

Scoring: 1 point for each part; both pairs must be correct, with the x-coordinate first.

Question 3: Plotting points (2 points)

(a) P: 2 right, 6 up. Q: 5 right, 3 up. R: 8 right, 1 up.



Plotted points.

(b) The closest point to the x-axis has the smallest y-coordinate. That is R, with $y = 1$.

Scoring: 1 point for all three points correctly plotted and labeled; 1 point for answering R.

Question 4: Points on the axes (2 points)

(a) On the x-axis $y = 0$, so the point is $(5,0)$.

(b) On the y-axis $x = 0$, so the point is $(0,8)$.

Scoring: 1 point for each correct ordered pair.

Question 5: Distances (2 points)

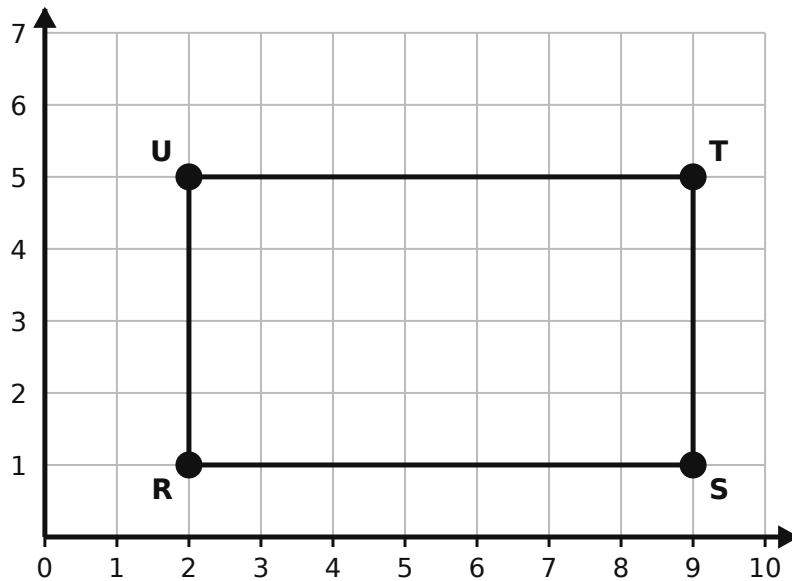
(a) Same y-coordinate: $9 - 1 = 8$ units.

(b) Same x-coordinate: $11 - 2 = 9$ units.

Scoring: 1 point for each correct distance.

Question 6: Rectangle on a grid (3 points)

(a) U has the x-coordinate of R (2) and the y-coordinate of T (5): $(2,5)$.



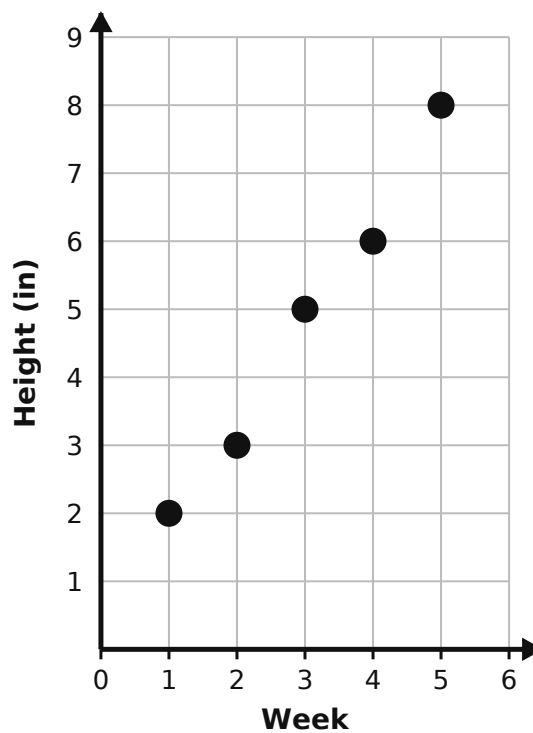
The completed rectangle.

(b) $RS = 9 - 2 = 7$ cm and $ST = 5 - 1 = 4$ cm. Perimeter: $7 + 4 + 7 + 4 = 22$ cm.

Scoring: 1 point for part (a). Part (b): 1 point for side lengths 7 and 4, 1 point for the perimeter 22 cm.

Question 7: Plant data (3 points)

(a) (1,2), (2,3), (3,5), (4,6), (5,8).



(c) At week 3 the plant was 5 inches tall.

Scoring: 1 point for the five ordered pairs with week first; 1 point for plotting all five points; 1 point for the meaning of week 3 and 5 inches.

Question 8: Town map (3 points)

(a) (5,6).

(b) Same x-coordinate: $6-1=5$ blocks.

(c) Library to Pool: $5-1=4$ blocks. Total: $5+4=9$ blocks.

Scoring: 1 point for each part.

Question 9: Check the claim (1 point)

No. In (3,8) the point is 3 right and 8 up. In (8,3) it is 8 right and 3 up. The order of the coordinates matters, so they are different points.

Scoring: 1 point for saying no with a correct explanation about the order of coordinates.

Total
20 points