

Grade 5 - Graphing on the Coordinate Plane - Test Answer Key

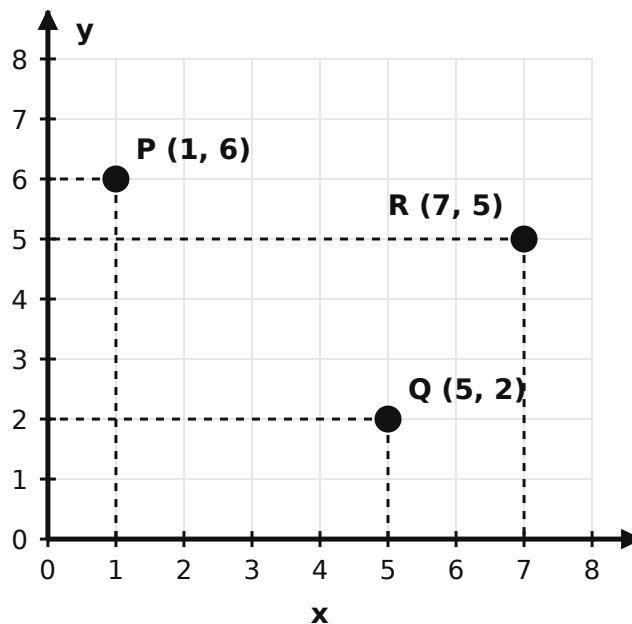
Common Core 5.G.A.1, 5.G.A.2 · maths-pdf.fr/en/

Use this key to score the test out of 20 points. Each answer shows the work and a scoring guide. Reversed coordinates cost the point for that ordered pair, but later parts that use them can still earn credit.

Grade 5 · Common Core State Standards: **5.G.A.1, 5.G.A.2**

Question 1 - Name the points [3 pts]

- $P = (1, 6)$
- $Q = (5, 2)$
- $R = (7, 5)$



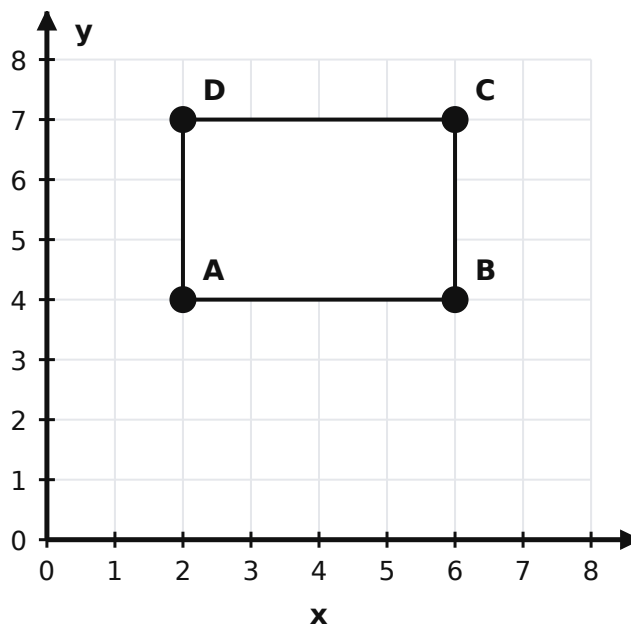
The points with their ordered pairs.

Scoring: 1 point for each correct ordered pair. Subtract the point if the coordinates are reversed.

Question 2 - Complete the rectangle [2 pts]

D has the x-coordinate of A and the y-coordinate of C, so $D = (2, 7)$.

Width: $6 - 2 = 4$. Height: $7 - 4 = 3$. Area: $4 \times 3 = 12$ square units.



Rectangle ABCD.

Scoring: 1 point for $D = (2, 7)$, 1 point for area 12 square units.

Question 3 - Distances on grid lines [2 pts]

- a. $9 - 0 = 9$ units
- b. $8 - 2 = 6$ units

Scoring: 1 point for each distance.

Question 4 - Points on the axes [3 pts]

- a. $(3, 0)$, because its y-coordinate is 0
- b. $(0, 3)$, because its x-coordinate is 0
- c. $(0, 0)$

Scoring: 1 point per part.

Question 5 - Moves on the grid [2 pts]

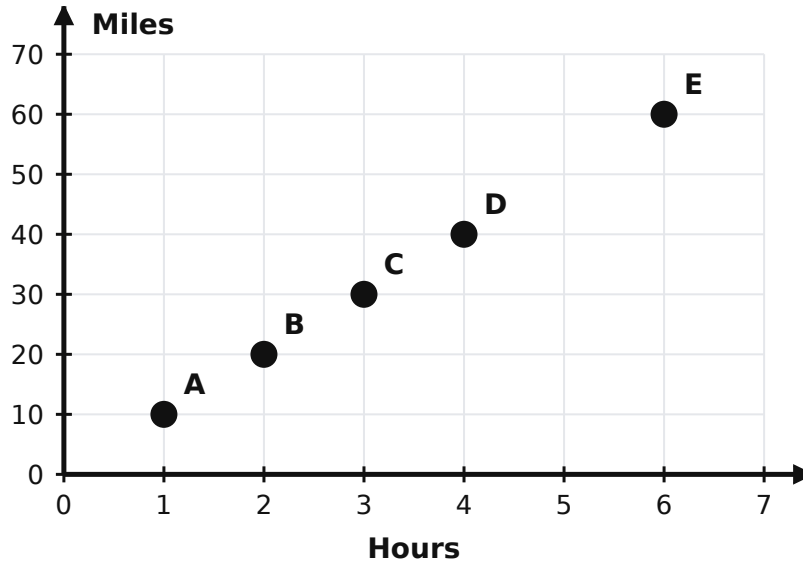
Right 5: $(6, 1)$. Up 3: $(6, 4)$. Left 2: $(4, 4)$.

(4,4)

Scoring: 1 point for correct moves, 1 point for the final ordered pair.

Question 6 - Bike ride graph [3 pts]

- a. After 2 hours Liam has ridden 20 miles.
- b. 30 miles
- c. He rides 10 miles each hour, and $60 \div 10 = 6$, so 6 hours.



Continuing the pattern gives (6,60).

Scoring: 1 point per part.

Question 7 - Table to ordered pairs [2 pts]

(1,5),(2,10),(3,15),(4,20).

For 6 bags: $6 \times 5 = 30$, so (6,30).

Scoring: 1 point for the four pairs, 1 point for (6, 30).

Question 8 - Walking in town [3 pts]

- a. $8 - 2 = 6$ blocks
- b. $7 - 3 = 4$ blocks
- c. $6 + 4 = 10$ blocks

Scoring: 1 point per part.

Total
20 points