

Grade 5 - Graphing on the Coordinate Plane - Test

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

Name: _____ Class: _____ Date: ____/____/____

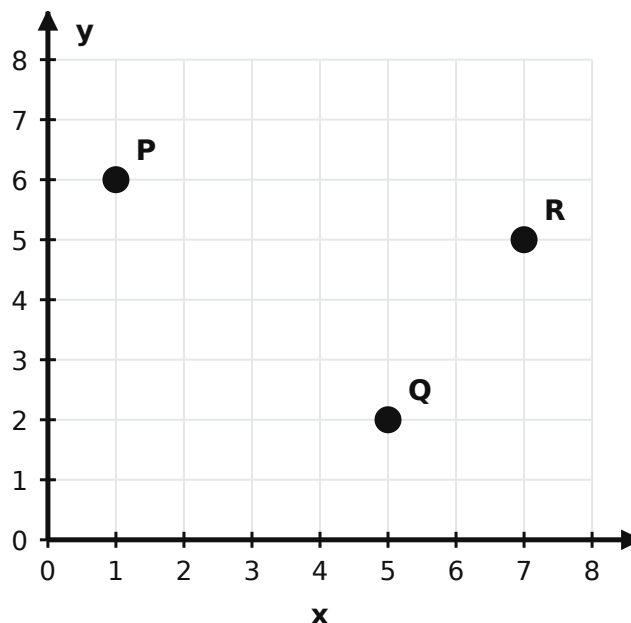
This 45-minute test covers ordered pairs, plotting in the first quadrant, distances along grid lines, and real-world graphs (5.G.A.1 and 5.G.A.2). There are 8 questions worth 20 points. Write the x-coordinate first.

About this test

- Grade: Grade 5
- Chapter: Graphing on the Coordinate Plane
- Standards: 5.G.A.1, 5.G.A.2
- Time: 45 minutes
- Total: 20 points

Question 1 - Name the points [3 pts]

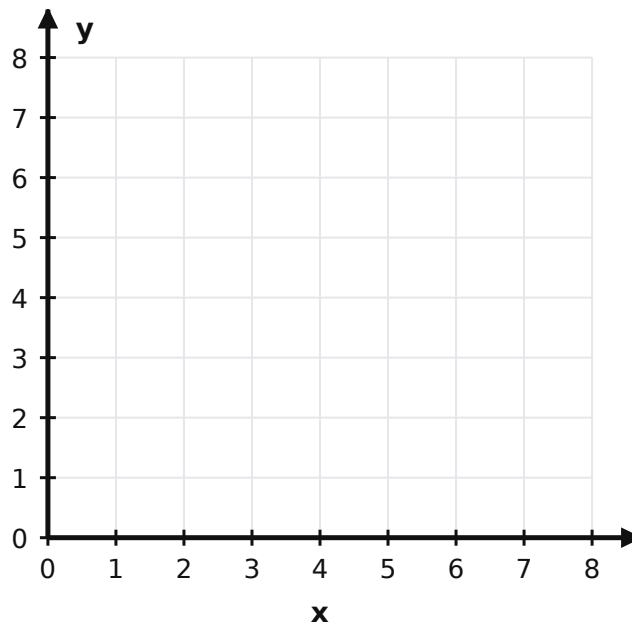
Write the ordered pair for each point.



Points P, Q and R.

Question 2 - Complete the rectangle [2 pts]

Solve. Points $A(2,4)$, $B(6,4)$ and $C(6,7)$ are three vertices of a rectangle. Plot the points on the grid. Find the ordered pair for the fourth vertex, D , and find the area of the rectangle.



A blank grid for plotting.

Question 3 - Distances on grid lines [2 pts]

Answer each part.

- Find the distance between $(0,5)$ and $(9,5)$. (1 point)
- Find the distance between $(4,2)$ and $(4,8)$. (1 point)

Question 4 - Points on the axes [3 pts]

Look at the points $(3,0)$, $(0,3)$ and $(3,3)$.

- Which point is on the x-axis? (1 point)
- Which point is on the y-axis? (1 point)
- Write the ordered pair for the origin. (1 point)

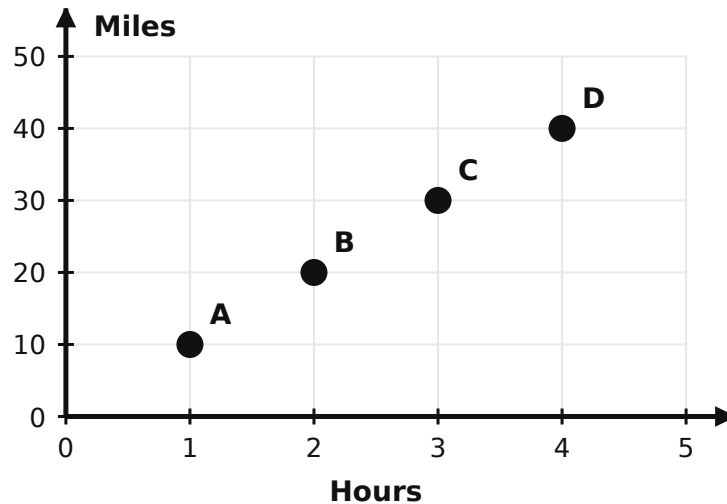
Question 5 - Moves on the grid [2 pts]

Solve. Maya starts at $(1,1)$. She moves 5 units right, then 3 units up, then 2 units left. What

ordered pair does she end at?

Question 6 - Bike ride graph [3 pts]

Solve. The graph shows how far Liam rides his bike.



Miles ridden after each hour.

- What does the point $(2,20)$ mean? (1 point)
- How many miles has Liam ridden after 3 hours? (1 point)
- If he keeps the same pattern, how many hours will it take to ride 60 miles? (1 point)

Question 7 - Table to ordered pairs [2 pts]

Solve. A bag holds 5 apples. Write ordered pairs (bags, apples) for 1, 2, 3 and 4 bags. Then write the ordered pair for 6 bags.

Question 8 - Walking in town [3 pts]

Solve. On a town map the park is at $(3,2)$, the library is at $(3,8)$ and the pool is at $(7,8)$. Each unit is one block.

- How far is the park from the library? (1 point)
- How far is the library from the pool? (1 point)
- How far is the walk from the park to the library to the pool? (1 point)