

Grade 5 · The Coordinate Plane · Worksheet

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

Name: _____ Date: ____/____/____ Score: _____

These 22 problems practice the coordinate plane in the first quadrant (5.G.A.1 and 5.G.A.2). You will name axes and the origin, read and plot ordered pairs, and find distances along grid lines.

The last six problems are real-world situations such as maps, plant growth, and savings. Draw each point carefully and check the order of the numbers.

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

Problem 1: Axes and origin

Answer each question about the coordinate plane.

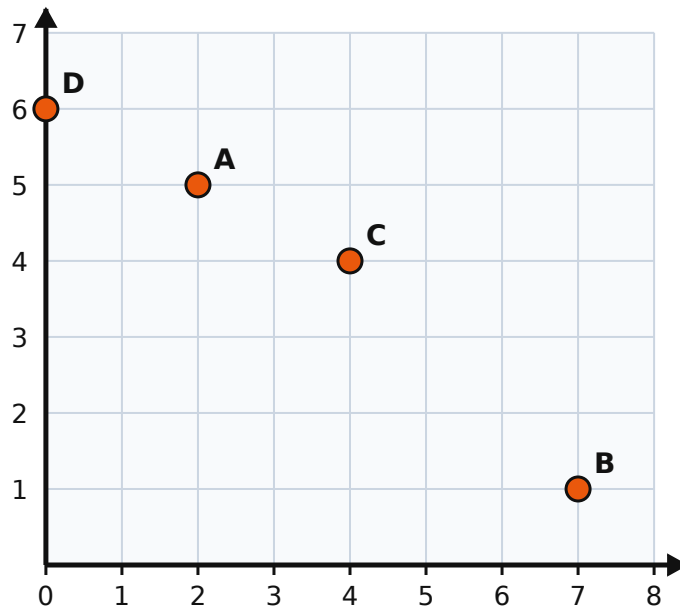
- Which axis is horizontal?
- Which axis is vertical?
- Write the ordered pair for the origin.

Problem 2: Which number is which

In the ordered pair $(6,3)$, which number tells how far to move right? Which number tells how far to move up?

Problem 3: Read the points

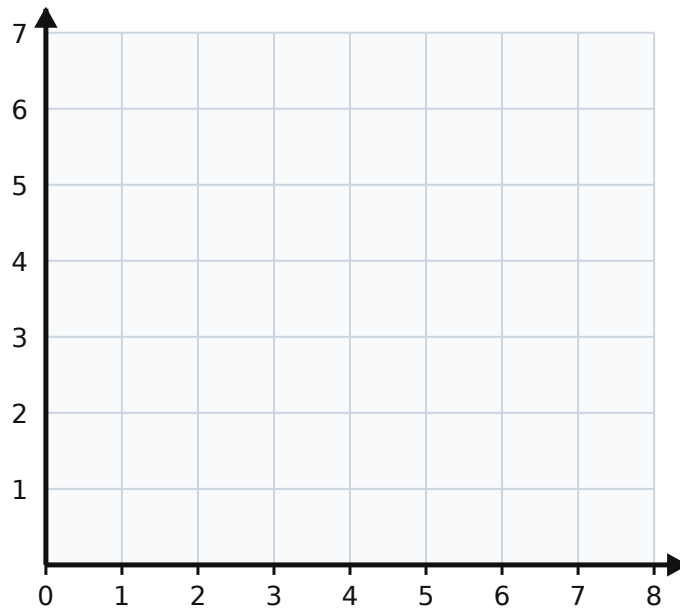
Write the ordered pair for each point.



Read the coordinates of A, B, C and D.

Problem 4: Plot four points

Plot and label these points: E (3,2), F (5,6), G (8,0), H (0,4).



Use this grid to plot the four points.

Problem 5: Points on the axes

Look at these points: (0,5), (5,0), (3,3), (0,0). Which lie on the x-axis? Which lie on the y-axis?

Problem 6: Right and up

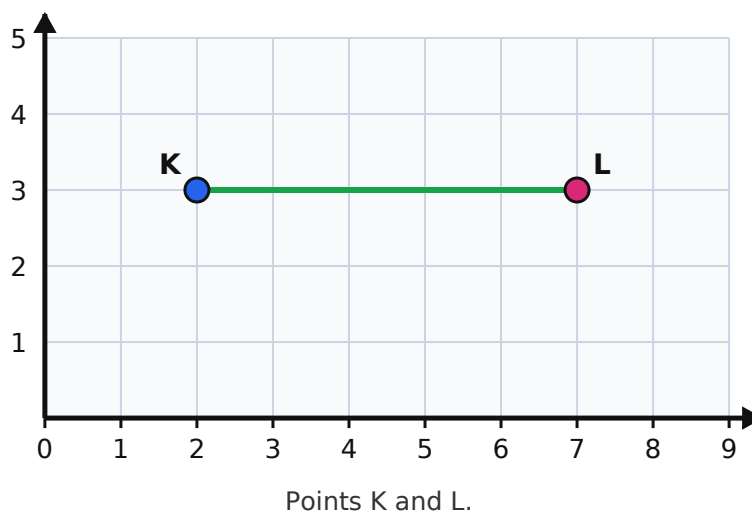
Start at the origin. Move 4 units right and 7 units up. Write the ordered pair for where you land.

Problem 7: Same numbers, different points

Point P is 9 units right and 2 units up from the origin. Point Q is 2 units right and 9 units up. Write both ordered pairs. Are P and Q the same point?

Problem 8: Distance in a row

How many units apart are K (2,3) and L (7,3)?



Problem 9: Distance in a column

How many units apart are the points (4,1) and (4,8)?

Problem 10: Find the missing number

Write the ordered pair for each point.

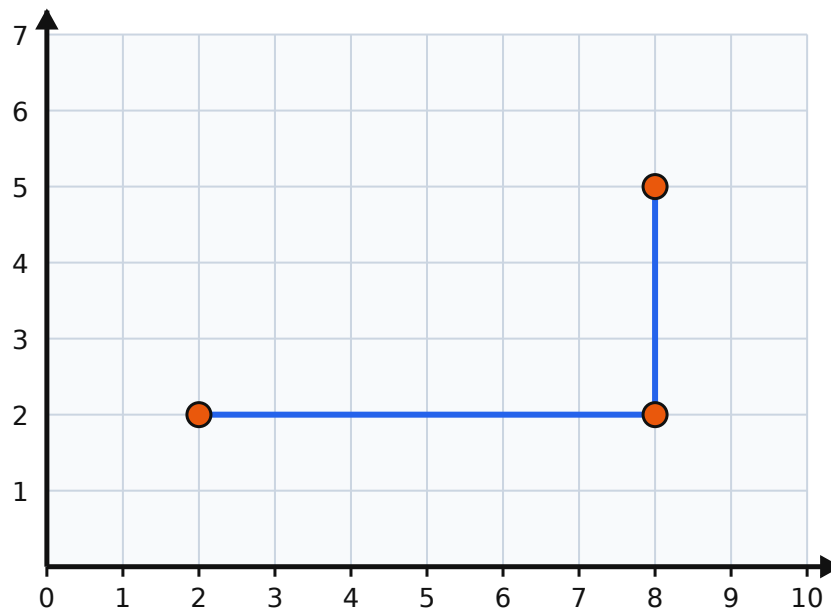
- Point K is on the y-axis, 7 units above the origin.
- Point M is on the x-axis, 6 units to the right of the origin.

Problem 11: A rectangle on the grid

Plot these points and connect them in order: (1,1), (6,1), (6,4), (1,4). Name the shape. Find the length of its longest side.

Problem 12: The fourth corner

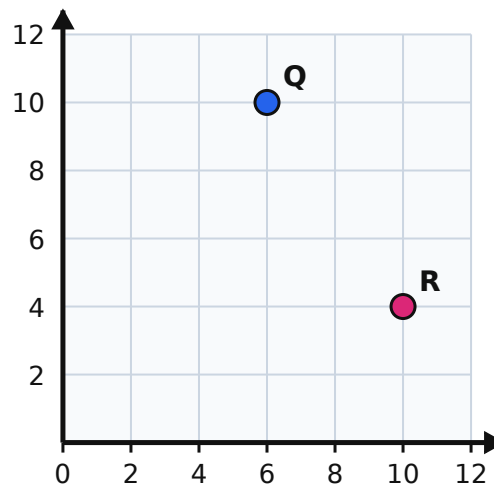
The grid shows three corners of a rectangle: $(2,2)$, $(8,2)$, and $(8,5)$. Write the ordered pair of the fourth corner.



Three corners of a rectangle.

Problem 13: Counting by twos

On this grid each square stands for 2 units. Write the ordered pairs of points Q and R.

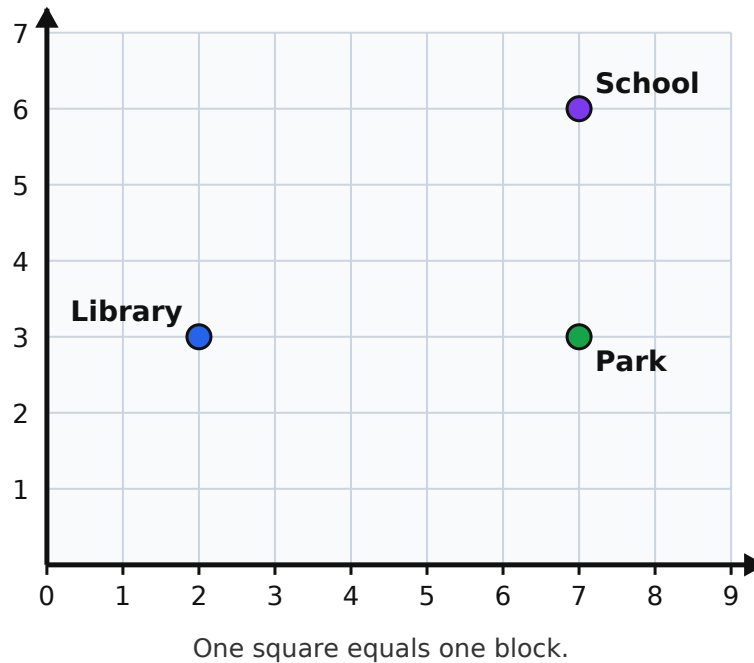


Each grid line counts by 2.

Problem 14: Blocks on a map

Each square on the map is one block. How many blocks is it from the Library to the Park? From

the Park to the School?



Problem 15: Plant growth data

Priya measured her bean plant. Week 1: 2 inches. Week 2: 4 inches. Week 3: 5 inches. Week 4: 7 inches. Write each pair as (week, height) and plot the points.

Problem 16: Meaning of a point

A graph shows hours babysitting (x) and dollars earned (y). Point (3,24) is on the graph. What does it mean? How many dollars were earned in 1 hour?

Problem 17: Muffin batches

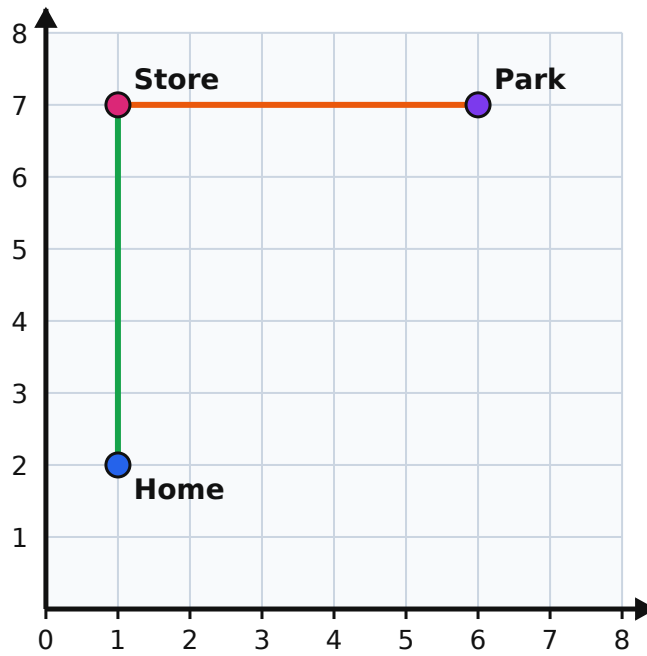
Each batch of muffins needs 3 cups of flour. Make a table for 1, 2, 3, and 4 batches. Write ordered pairs (batches, cups) and plot them.

Problem 18: Spot the mistake

Jamal wants to plot a point that is 7 units right and 4 units up. He writes (4,7). Explain his mistake and write the correct ordered pair.

Problem 19: Ethan's walk

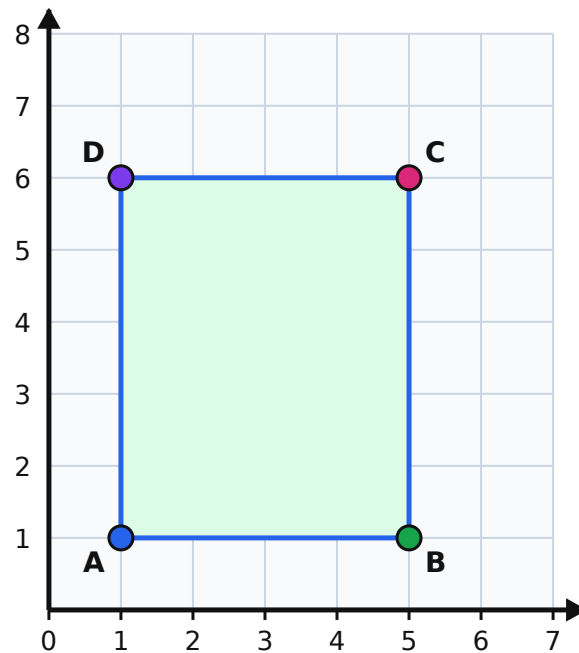
Ethan walks from Home (1,2) straight north to the Store (1,7). Then he walks straight east to the Park (6,7). Each unit is one block. How many blocks does he walk in all?



Ethan's walk, one square per block.

Problem 20: Farmers market loop

Four stands are at A (1,1), B (5,1), C (5,6), and D (1,6). Mei walks A to B to C to D and back to A. How many blocks is the whole loop?



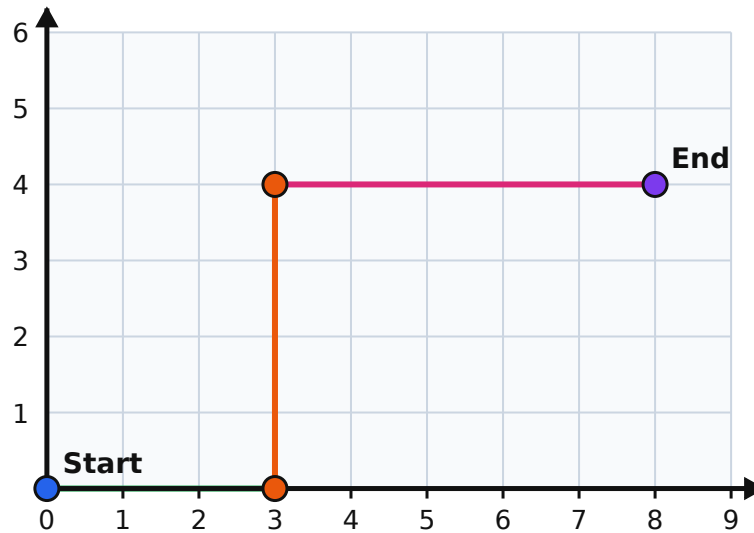
Four stands at the farmers market.

Problem 21: Diego's savings

Diego graphs his savings as (week, dollars). Two points on his graph are (2,10) and (5,25). How much more money does he have at the later point? How many weeks passed?

Problem 22: Hiking trail

A trail starts at (0,0), goes east to (3,0), north to (3,4), then east to (8,4). One unit is one mile. How long is the trail? How far north of the start does it end?



Hiking trail, one unit equals one mile.