

Grade 5 - Graphing on the Coordinate Plane - Worksheet

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

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

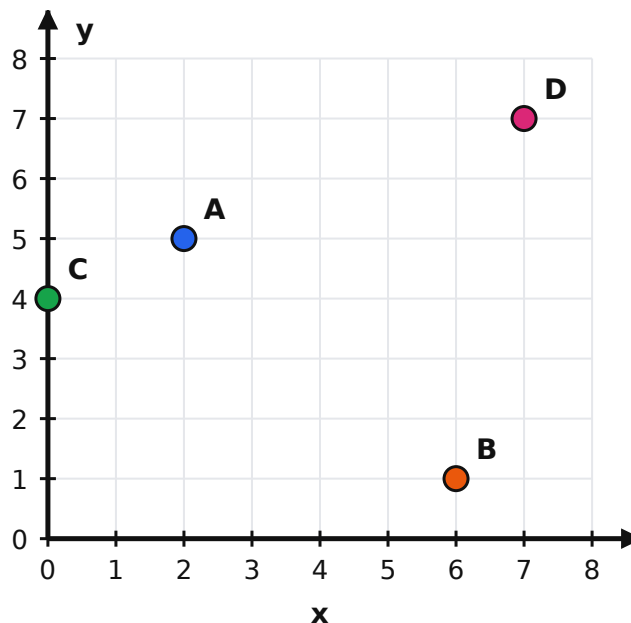
This worksheet has 20 problems on the coordinate plane (5.G.A.1 and 5.G.A.2). You will name and plot points in the first quadrant, find distances along grid lines, and read graphs of real situations.

The problems begin with ordered pairs and move to maps, tables and graphs with a scale. The last six are word problems. Always give the x-coordinate first and label axes with units.

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

Exercise 1 - Read the points

Write the ordered pair for each point.



Four points on a coordinate plane.

Exercise 2 - Plot a point

Plot the point $G(3,5)$ on a coordinate plane. How many units do you move right, and how many up, from the origin?

Exercise 3 - Which number is the x-coordinate

Solve. In the ordered pair $(7,2)$, name the x-coordinate and the y-coordinate.

Exercise 4 - Point on the x-axis

Solve. Point P is on the x-axis, 5 units to the right of the origin. Write the ordered pair for P.

Exercise 5 - Point on the y-axis

Solve. Point Q is on the y-axis, 6 units above the origin. Write the ordered pair for Q.

Exercise 6 - Moving from a point

Solve. Start at $(2,3)$. Move 4 units right. Then move 2 units up. Where do you end?

Exercise 7 - Distance on a horizontal line

Find the distance between $(1,4)$ and $(7,4)$.

Exercise 8 - Distance on a vertical line

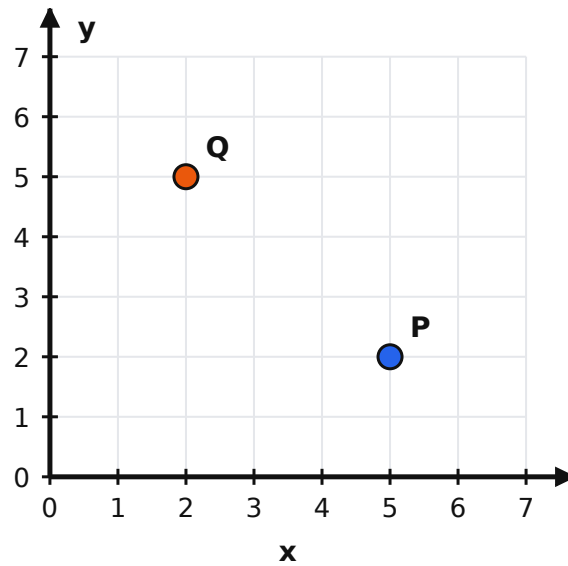
Find the distance between $(3,2)$ and $(3,9)$.

Exercise 9 - Plot a rectangle

Plot the points $(1,1)$, $(4,1)$, $(4,3)$ and $(1,3)$ and connect them in order. Name the shape and find its perimeter.

Exercise 10 - Same point or not

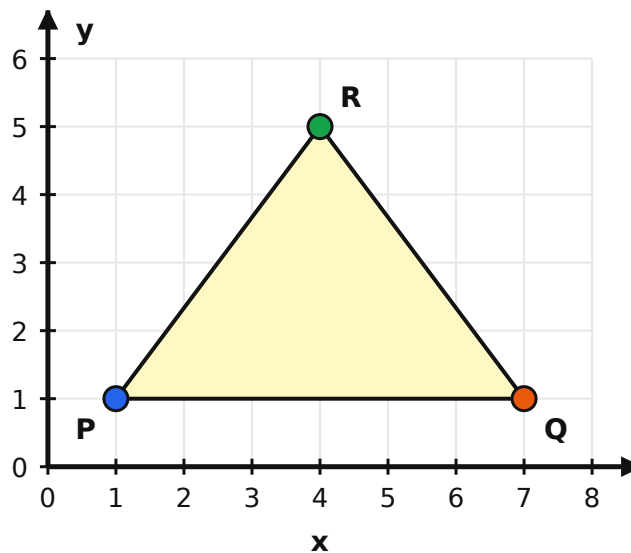
Solve. Are the points $(5,2)$ and $(2,5)$ the same point? Look at the graph and explain.



Point P and point Q.

Exercise 11 - Vertices of a triangle

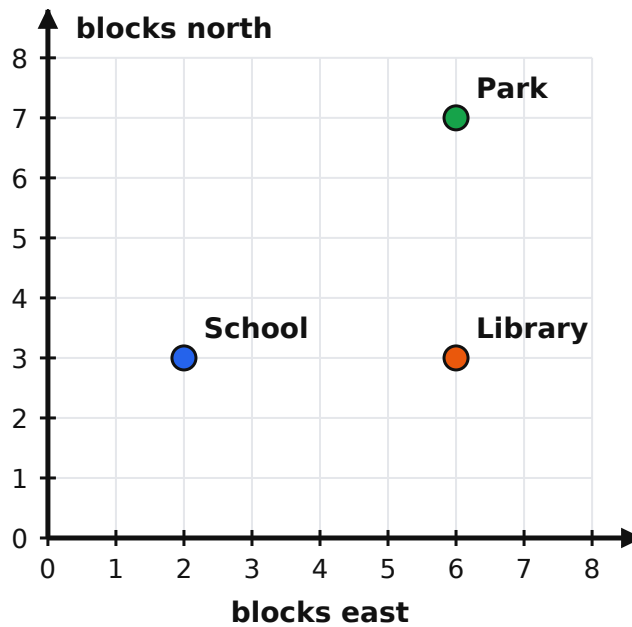
Write the ordered pair for each vertex of the triangle. Then find the length of side PQ.



Triangle PQR.

Exercise 12 - School map

Solve. The map shows the school at $(2,3)$, the library at $(6,3)$ and the park at $(6,7)$. (a) How far is it from school to the library? (b) How far is it from the library to the park? (c) How far is the walk from school to the library to the park?



A map with each square equal to one block.

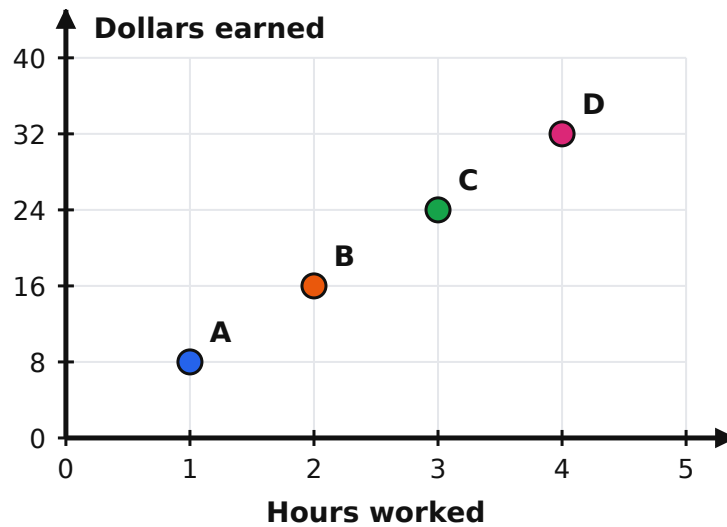
Exercise 13 - Table to ordered pairs

Solve. A pack of cookies has 6 cookies. The table shows packs and cookies. Write ordered pairs (packs, cookies).

Packs	1	2	3	4
Cookies	6	12	18	24

Exercise 14 - Dollars and hours

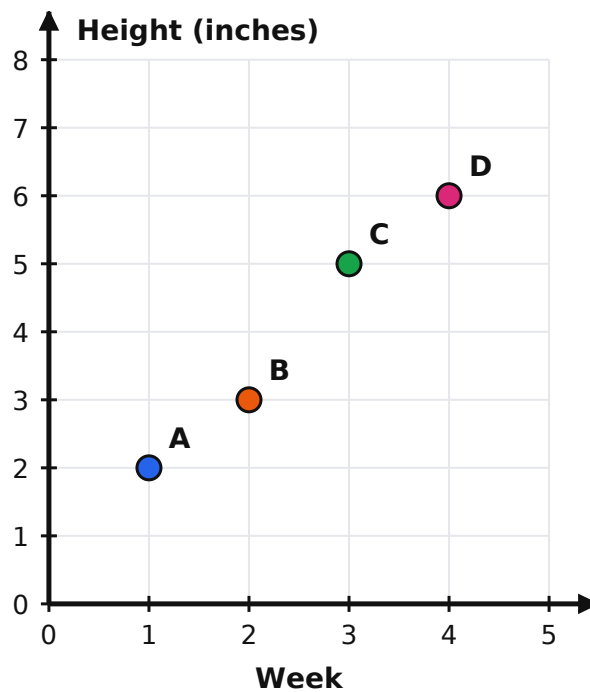
Solve. The graph shows the money Mei earns for hours of dog walking. (a) What does the point (3,24) mean? (b) How much does she earn in 4 hours?



Dollars earned for hours worked.

Exercise 15 - Plant growth

Solve. Ethan measured his bean plant each week. The graph shows its height in inches. (a) How tall was the plant in week 3? (b) How many inches did it grow from week 1 to week 4?

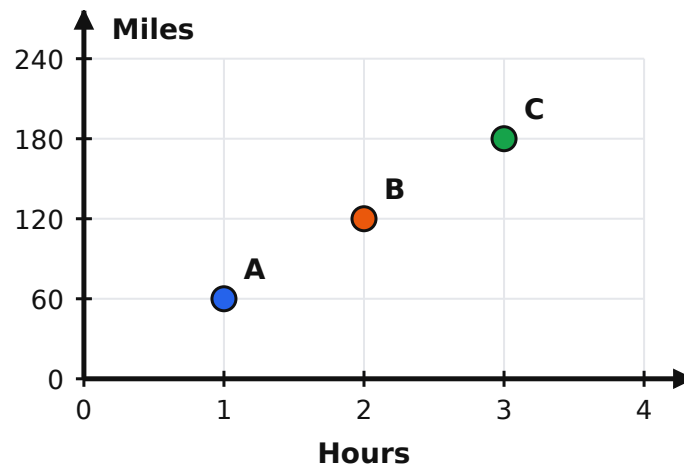


Height of a bean plant.

Exercise 16 - Road trip

Solve. The Rivera family drives on the highway. The graph shows the miles driven after each hour. (a) How far did they drive in 3 hours? (b) How many miles per hour is that? (c) At this

speed, how far will they drive in 5 hours?



Miles driven after each hour.

Exercise 17 - Lemonade stand

Solve. Sofia sells lemonade for \$2 a cup. The table shows cups sold and dollars earned. (a) Write the ordered pairs. (b) What is the ordered pair for 6 cups? (c) How many dollars does she earn for 9 cups?

Cups	1	2	3	4
Dollars	2	4	6	8

Exercise 18 - Treasure map

Solve. A treasure map starts at the origin. Diego walks 4 units right and 6 units up to the treasure chest. Then he walks 3 units up to a cave and 5 units right to a boat. Write the ordered pair for each place.

Exercise 19 - Walk to school

Solve. Diego's house is at (2,1) on a town grid. Mei's house is at (2,8) and the school is at (5,8). Each unit is one block. How many blocks does Diego walk if he goes to Mei's house first and then to school?

Exercise 20 - Saving money

Solve. Aisha saves \$5 each week. After week 1 she has \$5, after week 2 she has \$10, and so

on. (a) Write ordered pairs (week, dollars) for weeks 1 to 4. (b) Write the ordered pair for week 10. (c) In which week will she have \$50?