MATH

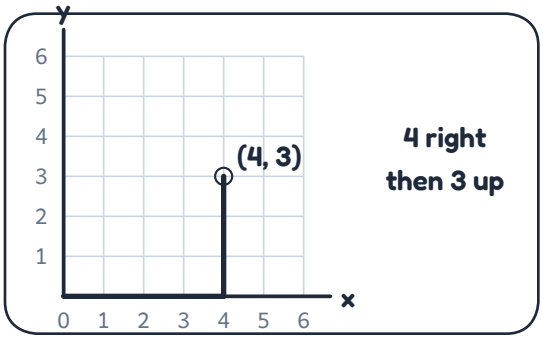
The coordinate plane

Name _____ Date _____

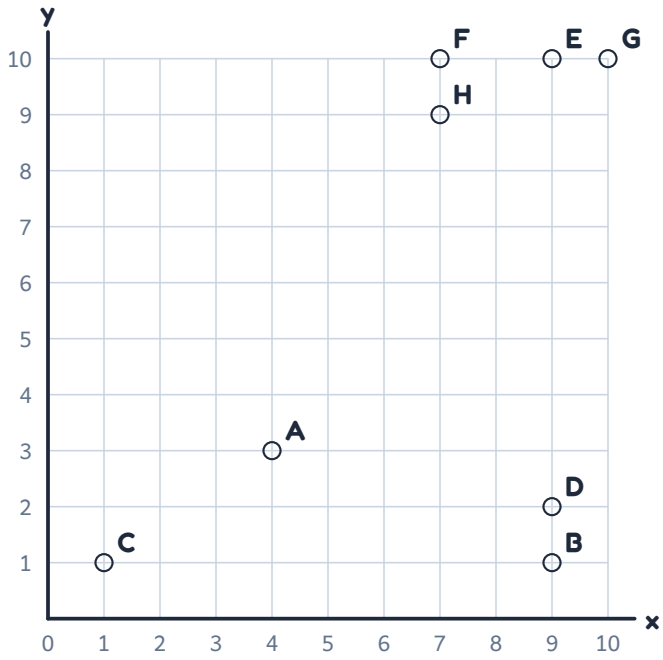
I can plot and name points on a coordinate grid.

1 How it works

A coordinate grid has a line across (the x-axis) and a line up (the y-axis) that meet at the origin, (0, 0). An ordered pair like (4, 3) tells you where a point is: start at the origin, go 4 across, then 3 up. The first number is always across and the second is always up.



2 Write the ordered pair for each point (across, up)



A (☐ , ☐) B (☐ , ☐)

C (☐ , ☐) D (☐ , ☐)

E (☐ , ☐) F (☐ , ☐)

G (☐ , ☐) H (☐ , ☐)

How did I do? ☆ ☆ ☆

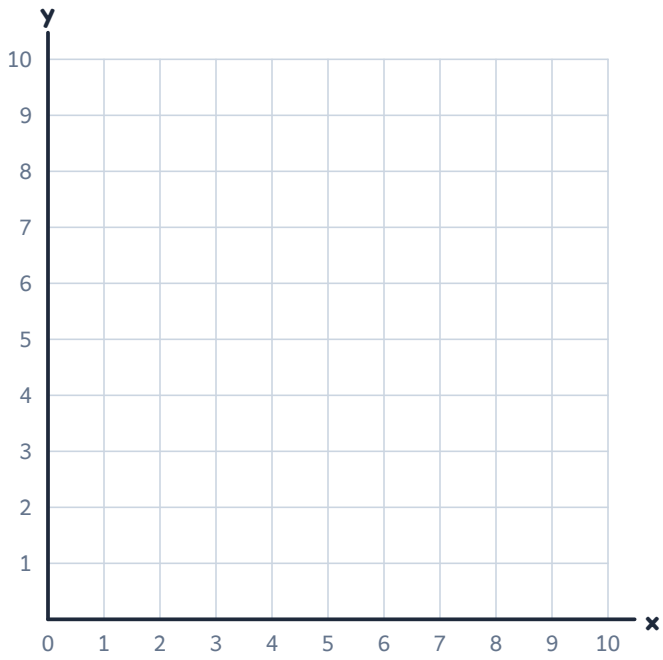
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Plot and move

Name _____ Date _____

I can plot points and move on a grid.

1 Plot each point and write its letter



J (3, 5) **K (5, 8)**

L (1, 10) **M (1, 4)**

N (4, 6) **P (8, 2)**

R (6, 5) **S (2, 4)**

2 Move on the grid

Right adds to x. Up adds to y.

1. Start at (2, 3). Move 1 right and 5 up. Where are you? _____
2. Start at (2, 3). Move 4 right and 1 up. Where are you? _____
3. Start at (1, 4). Move 2 right and 5 up. Where are you? _____
4. Start at (4, 4). Move 4 right and 3 up. Where are you? _____

How did I do? ☆ ☆ ☆

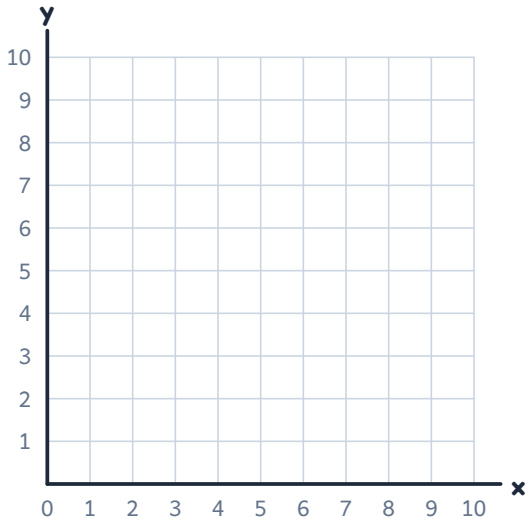
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Shapes on the grid

Name _____ Date _____

I can use ordered pairs to make shapes.

1 Plot three corners of a rectangle. Find the fourth.

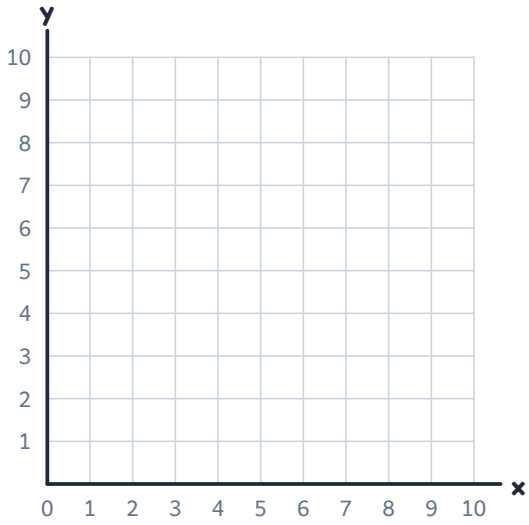


(3, 1)

(8, 1)

(8, 3)

Fourth:



(2, 4)

(6, 4)

(2, 8)

Fourth:

3 Think about it

1. What is the ordered pair for the origin?
2. A point is on the x-axis. What is its y number?
3. How far apart are (2, 3) and (2, 8)?
4. Which point is farther right: (7, 1) or (4, 9)?

How did I do? ☆ ☆ ☆

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Word problems

Name _____ Date _____

I can use geometry to solve problems.

1 Read, think, answer

Draw a picture in the box.

1 On a map grid, the school is at (3, 5) and the park is at (3, 9). How many units apart are they?

Answer:

2 Omar starts at (2, 2), walks 5 units right and 3 units up. Where does Omar end?

Answer:

3 Three corners of a square are at (1, 1), (4, 1) and (4, 4). Where is the fourth corner?

Answer:

4 Zara says (2, 6) and (6, 2) are the same point. Is Zara right? Explain.

Answer:

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: the coordinate plane

1 Page 1

Points: 1) A (4, 3); 2) B (9, 1); 3) C (1, 1); 4) D (9, 2); 5) E (9, 10); 6) F (7, 10); 7) G (10, 10); 8) H (7, 9).

2 Page 2

Plot: check each point by counting across, then up.
Moves: 1) (3, 8); 2) (6, 4); 3) (3, 9); 4) (8, 7).

3 Page 3

Fourth corner: 1) (3, 3); 2) (6, 8).
Think: 1) (0, 0); 2) 0; 3) 5 units; 4) (7, 1).

4 Page 4: word problems

1) 4 units (9 – 5)
2) (7, 5)
3) (1, 4)
4) No. (2, 6) is 2 right and 6 up; (6, 2) is 6 right and 2 up.

5 Teaching tip

Children often swap the numbers. Say "along the hall, then up the stairs", and have them trace the path with a finger before they draw the dot.

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