

Y6 Four Quadrants

KS2 Y6 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

Plot the point 3 right and 2 down from the origin. Write its coordinates and quadrant.

Step 1 · x first: 3 right

$$x = 3$$

Step 2 · Then y: 2 down

$$y = -2$$

Answer: (3, -2), in the fourth quadrant

Check: Positive x, negative y is bottom right ✓

2. Now try one with the steps

Describe the position of (-4, 5).

Step 1 · x = -4

Step 2 · y = 5

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. Which quadrant is (3, -2) in?

2. Which quadrant is (-5, 4) in?

3. Which quadrant is (-1, -6) in?

4. What are the coordinates of the origin?

5. A point is 4 left and 3 up from the origin. What are its coordinates?

6. A point is on the x-axis, 5 to the left of the origin. What are its coordinates?

7. Three corners of a rectangle are $(-3, 2)$, $(4, 2)$ and $(4, -1)$. What is the fourth corner?

8. How long is the side from $(-3, 2)$ to $(4, 2)$?

9. Three corners of a square are $(-1, -1)$, $(-1, 3)$ and $(3, 3)$. What is the fourth corner?

10. What point is halfway between $(-4, 0)$ and $(6, 0)$?

11. A point at $(2, -3)$ moves 5 squares left. Where is it now?

12. Which of these points is not in any quadrant: $(0, 4)$, $(1, 4)$, $(-1, 4)$?

13. How far apart are $(0, -4)$ and $(0, 5)$?

14. An isosceles triangle has corners $(-3, 0)$ and $(3, 0)$. Its top corner is on the y-axis, 4 units up. What are its coordinates?

15. Kim says $(2, -5)$ and $(-5, 2)$ are the same point. Is she right? Explain.

4. Before you hand it in

Plotting (3, -2) as 3 up and 2 left.

x comes first (across), then y (up or down). (3, -2) is right 3, down 2.

Counting -3 to 4 as 1 unit apart.

Count to 0 and on: $3 + 4 = 7$ units.

Starting to count from 1 instead of 0 on the axes.

Always start at the origin (0, 0).