

Max's Coordinate Quest

Learning objective: To describe positions on a 2D grid as coordinates in the first quadrant.

Read the map description below and help Max the monkey plot the locations of his hidden treasures. Remember to go 'along the corridor' (x-axis) first, then 'up the stairs' (y-axis).

Max has been busy organising his jungle map. He has drawn a grid to keep track of his favorite spots. The 'origin' (0,0) is at the bottom-left corner near the river. Max has hidden his banana stash at (3, 2). He has also left a shiny red compass at (5, 6) and a notebook at (1, 7). A curious parrot friend, Rosa, is resting at (4, 0). Max needs to mark these points carefully so he doesn't lose his equipment!

Word bank: x-axis · y-axis · coordinates · origin · grid · horizontal · vertical

1. What are the coordinates for the banana stash? (1 mark)

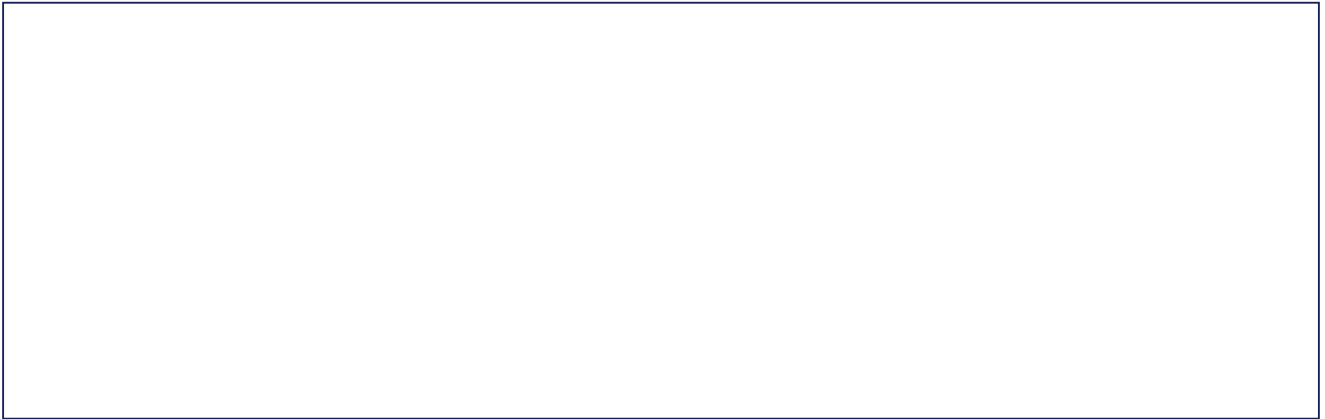
2. Which object is located at (1, 7)? (1 mark)

3. Max finds a lost coin at (2, 4). If he moves 3 units to the right and 1 unit up, what will his new coordinates be? (2 marks)

4. Explain the rule for reading coordinates. Why do we say 'along the corridor' before 'up the stairs'? (2 marks)

5. If Max is at (4, 0) and moves to (4, 5), has he moved horizontally or vertically? (2 marks)

Draw: Draw a 10x10 grid. Mark the origin (0,0) at the bottom-left. Plot the points: (3, 2) as a banana, (5, 6) as a compass, (1, 7) as a notebook, and (4, 0) as a bird.



Extension challenge: Max wants to buy some fruit for his friends. If a bunch of bananas costs £1.25 and he buys 4 bunches, how much will he spend in total? Write the amount in dollars and cents.