

PLOTTING COORDINATES ON A SET OF AXES.

Answer all of these questions. Remember to show your working out in all questions.

SPIRAL



S1.

A bag contains 4 red marbles and 6 blue marbles. What is the probability of picking a red marble?

S2.

Simplify $5a + 3b + 2a$

S3.

Find the mean of 7, 9 and 11

S4.

Find the highest common factor of 18 and 27

DEVELOP

CORBETT VIDEO: <https://youtu.be/B3SsWXptla8>

1.

You start at (0,0) and move 3 units right and 2 units up. What are the coordinates?

Step 1: Horizontal movement: move 3 units right $\rightarrow x = 0 + 3 = 3$

Step 2: Vertical movement: move 2 units up $\rightarrow y = 0 + 2 = 2$

Step 3: Combine coordinates $\rightarrow (3,2)$

2.

You start at (0,0) and move 5 units right and 0 units up. What are the coordinates?

Step 1: Horizontal movement: move 5 units right $\rightarrow x = 0 + 5 = 5$

Step 2: Vertical movement: no movement $\rightarrow y = 0$

Step 3: Combine coordinates $\rightarrow (5,0)$

3.

You start at (4,3) and move 2 units right and 1 unit up. What are the new coordinates?

Step 1: Original $x = 4$. Move 2 right \rightarrow new $x = 4 + 2 = 6$

Step 2: Original $y = 3$. Move 1 up \rightarrow new $y = 3 + 1 = 4$

Step 3: Combine coordinates $\rightarrow (6,4)$

4.

You start at (7,5) and move 3 units left and 2 units down. What are the new coordinates?

Step 1: Original $x = 7$. Move 3 left \rightarrow new $x = 7 - 3 = 4$

Step 2: Original $y = 5$. Move 2 down \rightarrow new $y = 5 - 2 = 3$

Step 3: Combine coordinates $\rightarrow (4,3)$

5.

You start at (8,6). After moving 4 units left and 3 units down, what are the coordinates?

Step 1: Original $x = 8$. Move 4 left \rightarrow new $x = 8 - 4 = 4$

Step 2: Original $y = 6$. Move 3 down \rightarrow new $y = 6 - 3 = 3$

Step 3: Combine coordinates $\rightarrow (4,3)$

6. Start at (0,0). Move 4 units right and 7 units up. What are the coordinates?

7. Start at (0,0). Move 6 units right and 3 units up. What are the coordinates?

8. Start at (5,2). Move 3 units right and 4 units up. What are the new coordinates?

9. Start at (9,7). Move 2 units left and 1 unit down. What are the new coordinates?

10. Start at (3,8). Move 1 unit left and 5 units down. What are the new coordinates?

11. Start at (10,10). Move 4 units left and 3 units down. What are the new coordinates?

12. What are the coordinates 2 units above (5,5)?

13. What are the coordinates 3 units to the left of (8,4)?

14. What are the coordinates 1 unit below (7,9)?

15. What are the coordinates 4 units to the right of (2,3)?

APPLY



A1.

Sam starts at the park entrance (0,0). He walks 5 metres east and 3 metres north to a bench. What are the bench's coordinates?

A2.

A drone takes off from (2,4). It flies 7 units east and 2 units north to take photos. What are its new coordinates?

A3.

A treasure is buried 3 units west and 4 units south of a tree at (10,8). What are the treasure's coordinates?

A4.

In a city grid, the cafe is at (6,9). The bookshop is 2 blocks west and 1 block south of the cafe. What are the bookshop's coordinates?

A5.

A boat sails from harbour (15,10). It travels 6 units west and 5 units south to an island. What are the island's coordinates?