

# PLOTTING COORDINATES IN FOUR QUADRANTS - ANSWERS

## SPIRAL



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|------------|--|---------------|------------|---------------------|--------|
| <b>S1.</b> | $\frac{1}{2} + \frac{1}{4}$                | $\frac{3}{4}$ | <b>S2.</b> | $0.5 + 0.25$        | $0.75$ |
| <b>S3.</b> | If $a=3$ and $b=2$ ,<br>what is $2a + b$ ? | $8$           | <b>S4.</b> | $\frac{3}{4}$ of 12 | $9$    |

## DEVELOP

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|-----------|--|---------|-----------|--|----------|
| <b>1.</b> | A point is 2 units right and 5 units up from the origin. What are its coordinates? | $(2,5)$ | <b>2.</b> | A point is 6 units right and 3 units down from the origin. What are its coordinates? | $(6,-3)$ |
|-----------|--|---------|-----------|--|----------|

3. A point is 4 units left and 1 unit down from the origin. What are its coordinates?  $(-4,-1)$
4. A point is 3 units left and 2 units up from the origin. What are its coordinates?  $(-3,2)$
5. The point  $(3,4)$  is reflected in the x-axis. What are the coordinates of the reflected point?  $(3,-4)$
6. A point is 1 unit left and 3 units up from the origin. What are its coordinates?  $(-1,3)$
7. A point is 2 units right and 4 units down from the origin. What are its coordinates?  $(2,-4)$
8. Reflect the point  $(3,2)$  in the x-axis  $(3,-2)$
9. Reflect the point  $(-4,1)$  in the y-axis  $(4,1)$
10. What are the coordinates of a point on the x-axis, 5 units left of the origin?  $(-5,0)$
11. What are the coordinates of a point on the y-axis, 3 units below the origin?  $(0,-3)$
12. The point  $(2,5)$  moves 3 units right and 2 units down. What are its new coordinates?  $(5,3)$

13. The point  $(-3, -2)$  moves 1 unit left and 4 units up. What are its new coordinates?  $(-4, 2)$
14. Reflect the point  $(0, 6)$  in the x-axis  $(0, -6)$
15. The point  $(4, -1)$  is reflected in the y-axis. What are the new coordinates?  $(-4, -1)$

## APPLY



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- A1. A drone starts at  $(1, 2)$ . It flies 3 metres east and 4 metres north. What are its new coordinates?  $(4, 6)$
- A2. A boat is at  $(-3, 4)$ . It sails 2 metres west and 3 metres south. What are its new coordinates?  $(-5, 1)$
- A3. A bird is at  $(5, -2)$ . Its reflection in a lake (x-axis) is seen. What are the reflection's coordinates?  $(5, 2)$
- A4. A car starts at the origin. It drives 4 miles west and 3 miles north. What are its coordinates?  $(-4, 3)$
- A5. A treasure is buried 2 units left and 1 unit down from  $(3, 4)$ . What are its coordinates?  $(1, 3)$