

Varied Fluency

Step 3: Move on a Grid

National Curriculum Objectives:

Mathematics Year 4: (4P2) [Describe movements between positions as translations of a given unit to the left/right and up/down](#)

Mathematics Year 4: (4P3a) [Describe positions on a 2D grid as co-ordinates in the first quadrant](#)

Differentiation:

Developing Questions to support one-step translations (left, right, up or down) of singular points on a 5x5 grid.

Expected Questions to support two-step translations (left or right and up or down) of singular points on a 10x10 grid using a 1:1 scale.

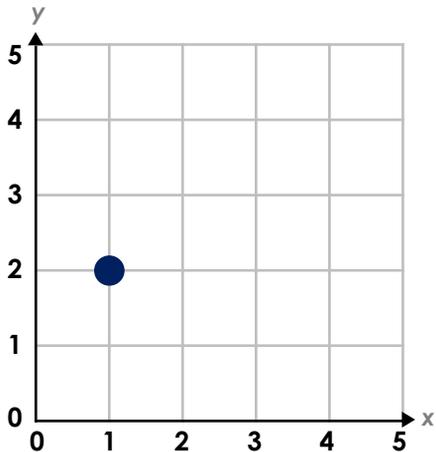
Greater Depth Questions to support two-step translations of singular points on a 10x10 grid. Scales varied and points may be plotted between increments.

More [Year 4 Position and Direction](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Move on a Grid

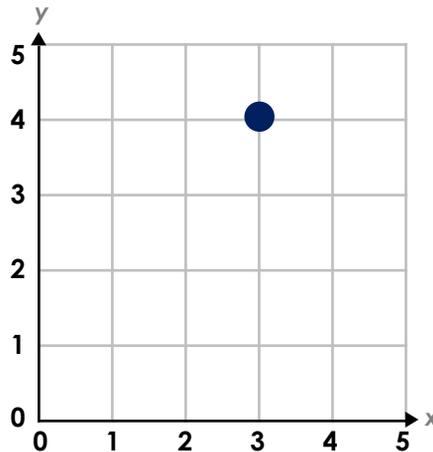
1a. Translate the point 2 squares right. Record the new coordinates.



VF

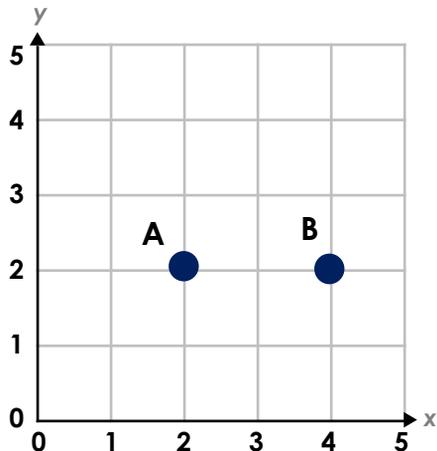
Move on a Grid

1b. Translate the point 4 down. Record the new coordinates.



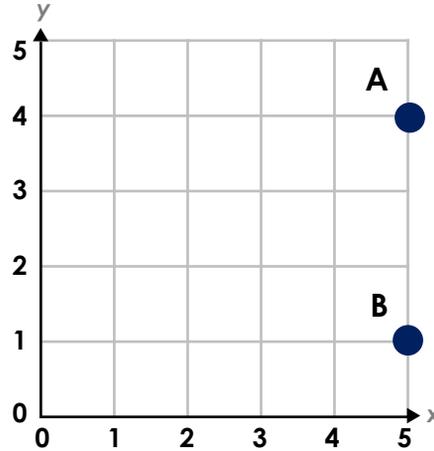
VF

2a. True or False? Point A has been translated 2 left to point B.



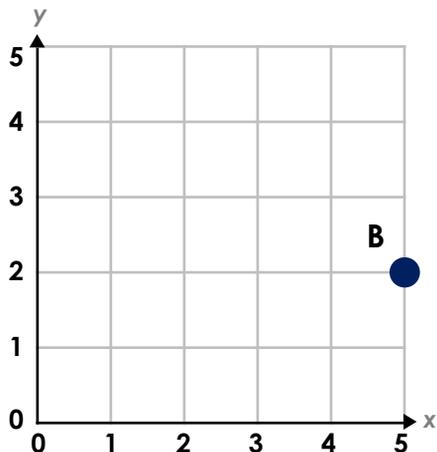
VF

2b. True or False? Point A has been translated 3 down to point B.



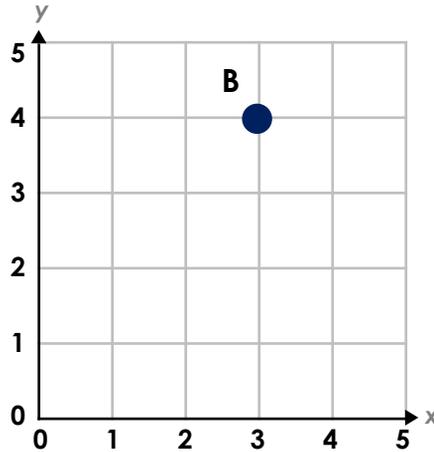
VF

3a. Point A has been translated 2 squares right to point B. Record the original coordinates for point A.



VF

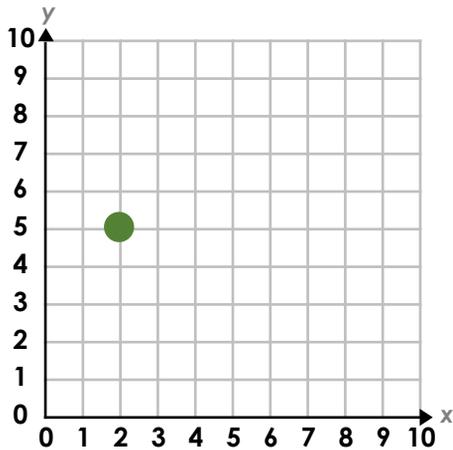
3b. Point A has been translated 3 squares up to point B. Record the original coordinates for point A.



VF

Move on a Grid

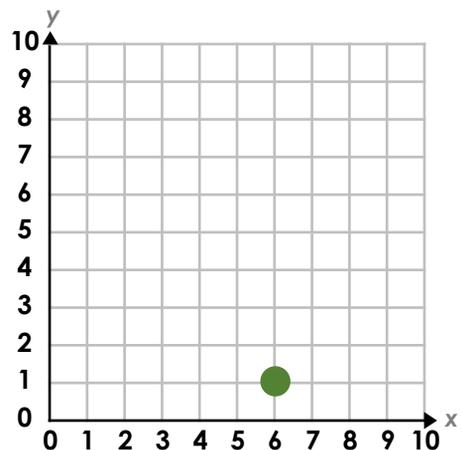
4a. Translate the point 3 right and 4 down. Record the new coordinates.



VF

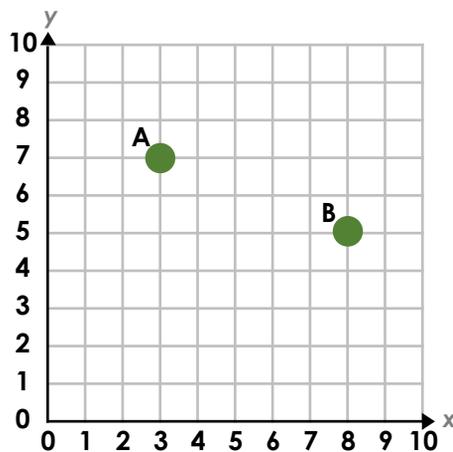
Move on a Grid

4b. Translate the point 5 left and 2 up. Record the new coordinates.



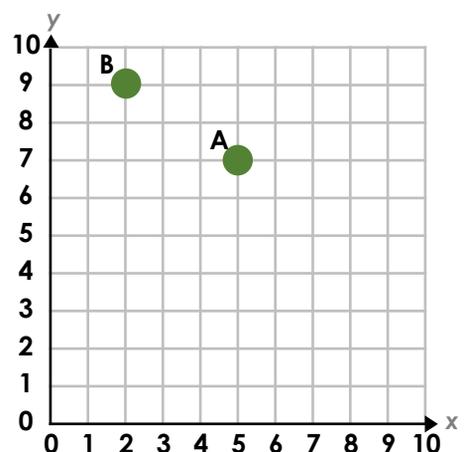
VF

5a. True or False? Point A has been translated 6 right and 2 down to point B.



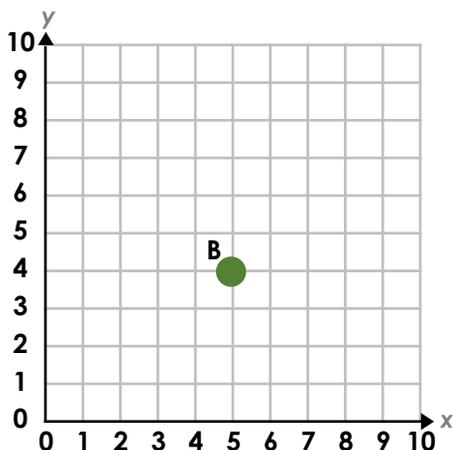
VF

5b. True or False? Point A has been translated 2 up and 3 left to point B.



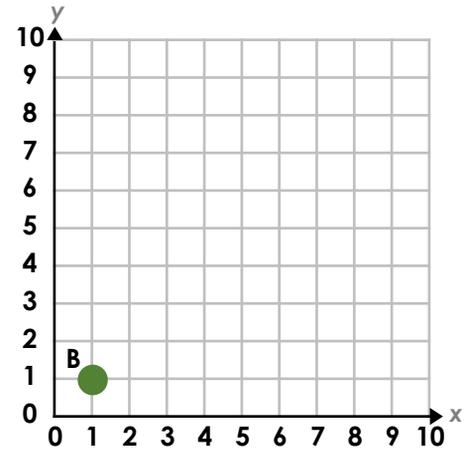
VF

6a. Point A has been translated 3 squares right and 5 squares down to point B. Record the original coordinates for point A.



VF

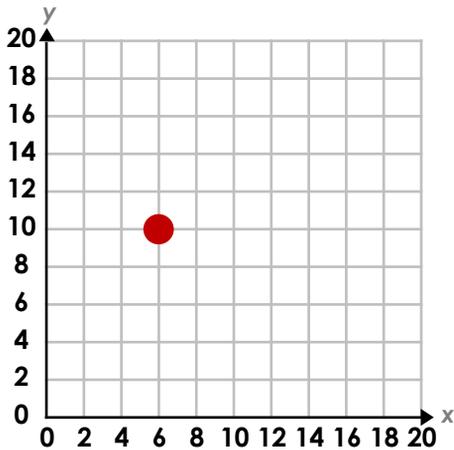
6b. Point A has been translated 3 squares left and 5 squares down to point B. Record the original coordinates for point A.



VF

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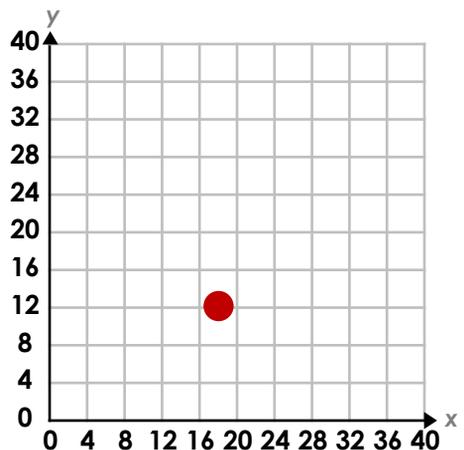
7a. Translate the point 4 left and 6 down. Record the new coordinates.



VF

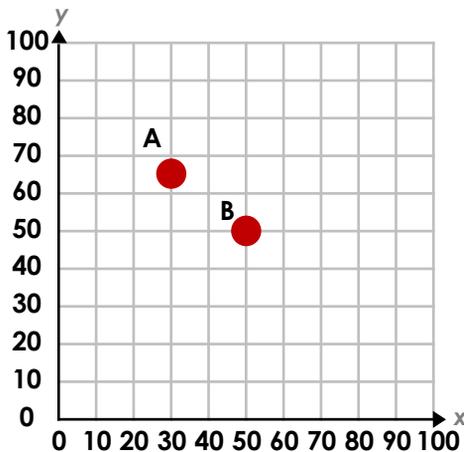
Move on a Grid

7b. Translate the point 10 right and 12 up. Record the new coordinates.



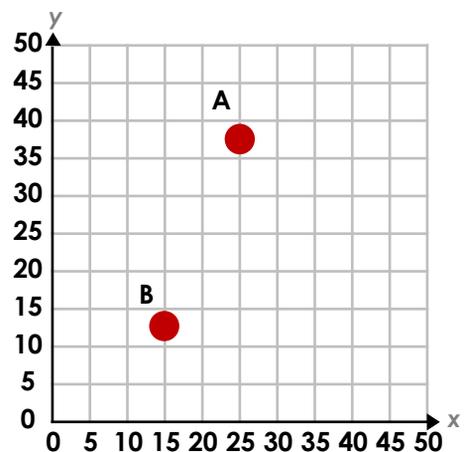
VF

8a. True or False? Point A has been translated 20 left and 15 down to point B.



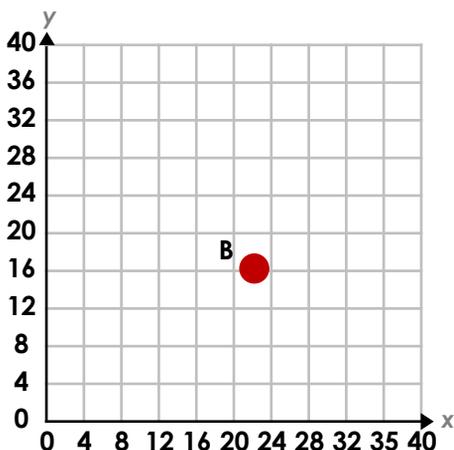
VF

8b. True or False? Point A has been translated 10 left and 25 down to point B.



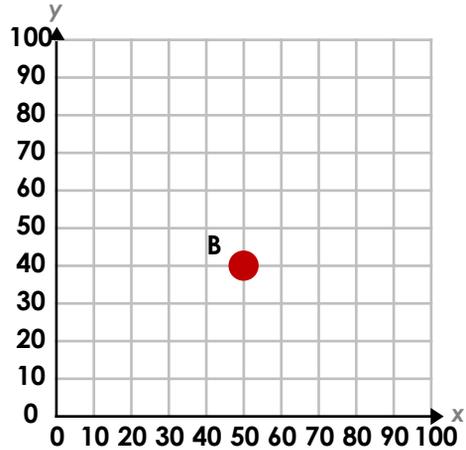
VF

9a. Point A has been translated 10 right and 6 up to point B. Record the original coordinates for point A.



VF

9b. Point A has been translated 5 right and 25 down to point B. Record the original coordinates for point A.



VF

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Developing

- 1a. (3, 2)
2a. False. The translation is 2 right.
3a. (3, 2)

Expected

- 4a. (5, 1)
5a. False. The translation is 5 right, 2 down.
6a. (2, 9)

Greater Depth

- 7a. (2, 4)
8a. False. The translation is 20 right, 15 down.
9a. (12, 10)

Varied Fluency
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Developing

- 1b. (3, 0)
2b. True.
3b. (3, 1)

Expected

- 4b. (1, 3)
5b. True.
6b. (4, 6)

Greater Depth

- 7b. (28, 24)
8b. True
9b. (45, 65)