

Homework/Extension

Step 4: Describe Movement

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 2-D grid as coordinates in the first quadrant](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Determine which grid correctly describes the one-step translations (left, right, up or down) of singular points on a 2D grid. All points plotted on a 5x5 grid (using 1:1 scale).

Expected Determine which grid correctly describes the two-step translations of singular points on a 2D grid. All points plotted on a 10x10 grid (using 1:1 scale).

Greater Depth Determine which grid supports the two-step translations of singular points. All points plotted on a 10x10 grid where the scale goes up in increments of 8.

Questions 2, 5 and 8 (Varied Fluency)

Developing Describe the position of two shapes to support one-step translations (left, right, up or down) of singular points on a 2D grid. All points plotted on a 5x5 grid, using 1:1 scale.

Expected Describe the two-step translation of two shapes plotted on a 2D grid. All points plotted on a 10x10 grid, using 1:1 scale.

Greater Depth Describe the position of different shapes to support two-step translations of singular points. All shapes plotted on a 10x10 grid where the scale goes up in increments of 4.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Determine if a statement is correct to support one-step translations (left, right, up or down) of singular shapes on a 2D grid. All shapes plotted on a 5x5 grid, using 1:1 scale.

Expected Determine if a statement is correct to support two-step translations of singular shapes on a 2D grid. All shapes plotted on a 10x10 grid, using 1:1 scale.

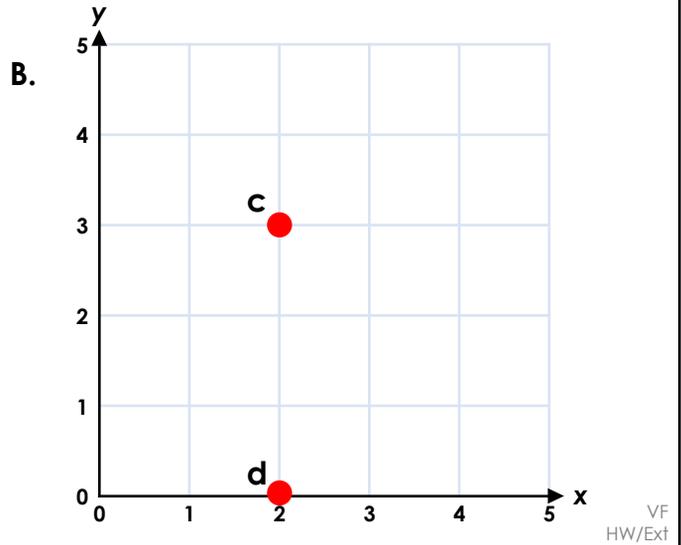
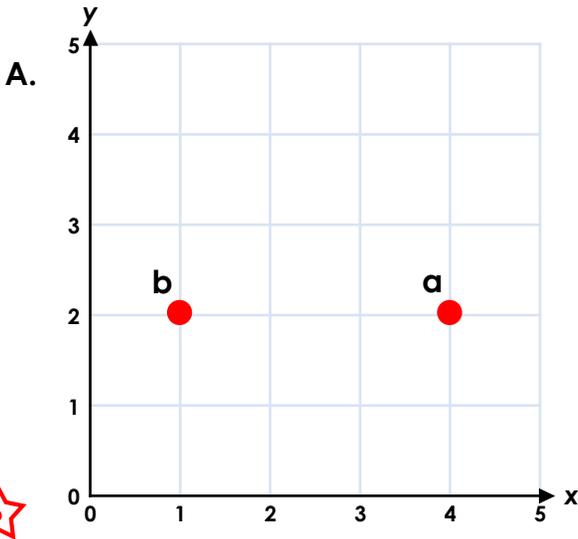
Greater Depth Determine if a statement is correct to support two-step translations of singular shapes. All shapes plotted on a 10x10 grid where the scale goes up in increments of 6.

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

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

Describe Movement

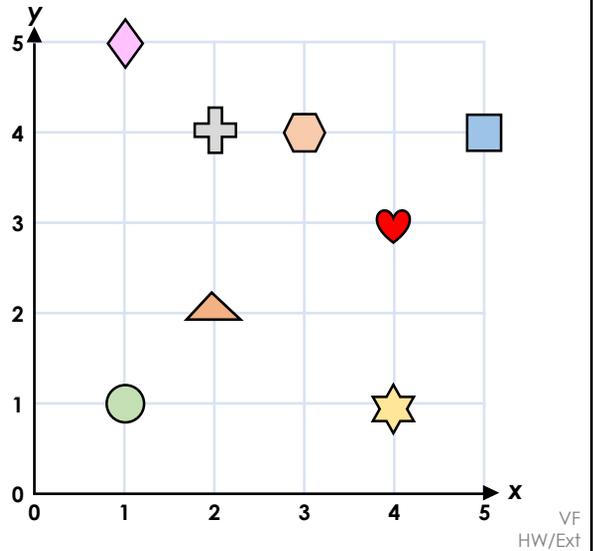
1. Which of these grids shows a translation of 3 left?



VF
HW/Ext

2. Complete the sentences to show the translation between the shapes.

- A. to has moved 4 _____.
- B. to has moved 2 _____.
- C. to has moved _____.
- D. to has moved _____.



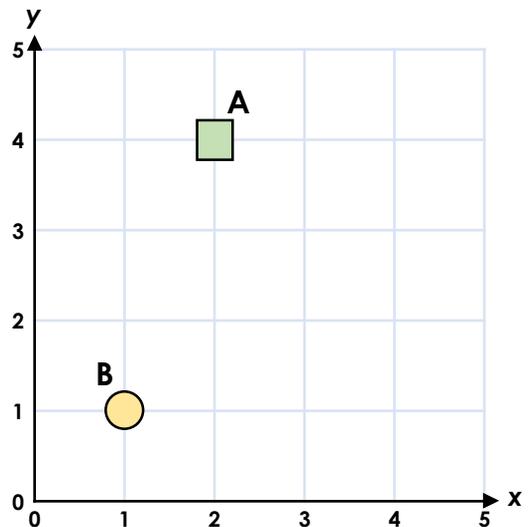
VF
HW/Ext

3. Simon is translating shapes on a grid. He says,



If shape B is translated 3 up, it will be on same y axis as shape A.

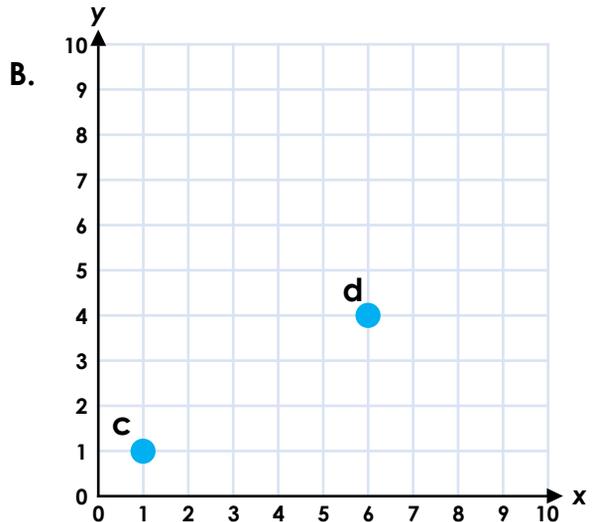
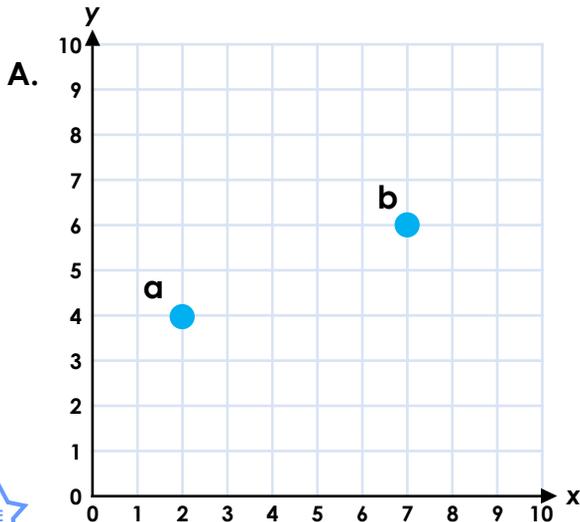
Is Simon correct? Convince me!



RPS
HW/Ext

Describe Movement

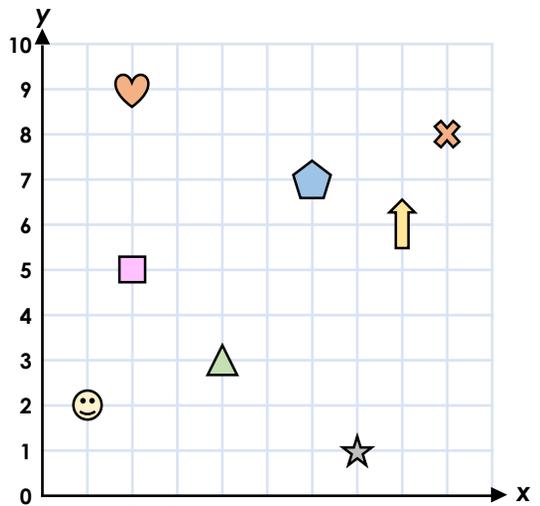
4. Which of these grids shows a translation of 5 right and 3 up?



VF
HW/Ext

5. Complete the sentences to show the translation between the shapes.

- A. 😊 to ❤️ has moved 1 _____ and 7 _____.
- B. ▲ to ⬡ has moved 2 _____ and 4 _____.
- C. ◻ to ⬆️ has moved 6 _____ and _____.
- D. ✕ to ☆ has moved _____ and _____.



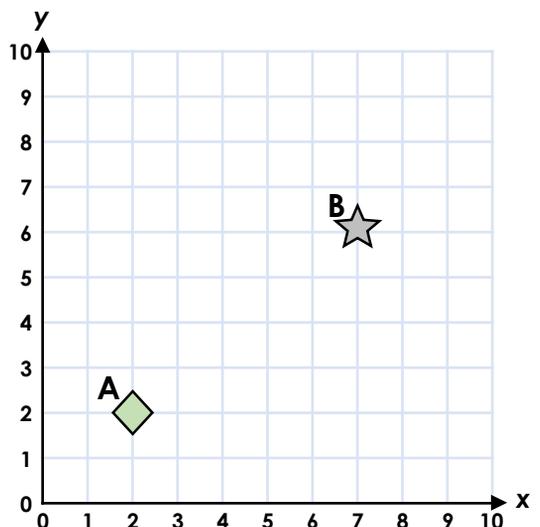
VF
HW/Ext

6. Suzie is translating shapes on a grid. She says,

If shape A is translated 5 up, it will be on same y axis as shape B.



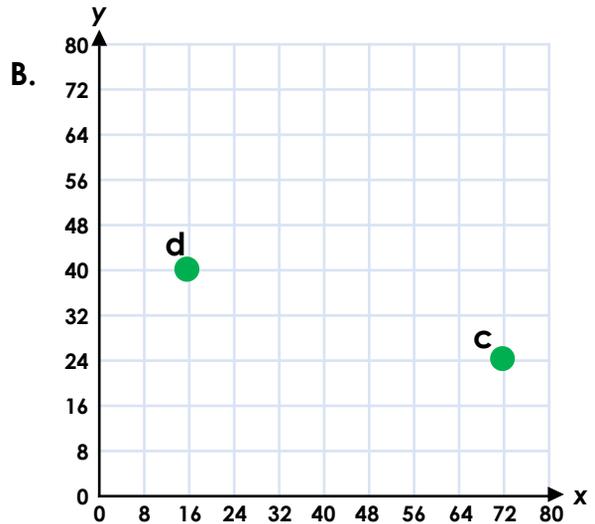
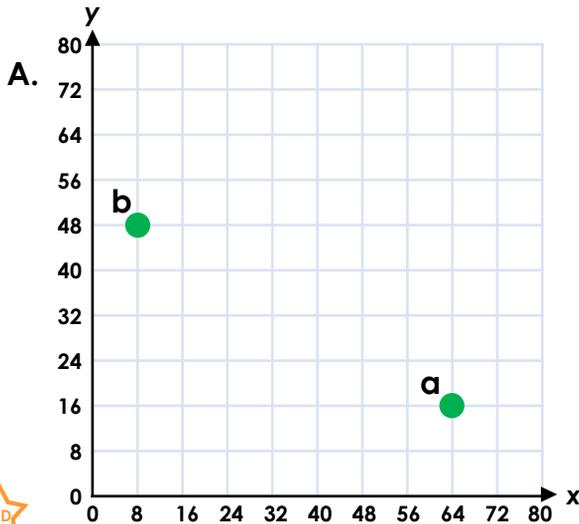
Is Suzie correct? Convince me!



RPS
HW/Ext

Describe Movement

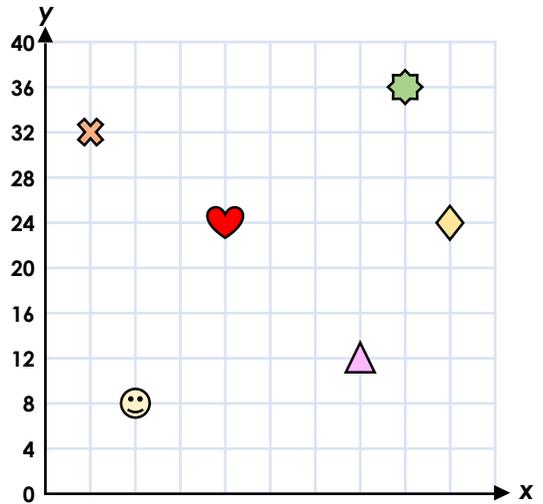
7. Which of these grids shows a translation of 56 left and 32 up?



VF
HW/Ext

8. Complete the sentences to show the translation between the shapes.

- A. 😊 to ⬠ has moved _____ and _____.
- B. ⬠ to ▲ has moved _____ and _____.
- C. ❤️ to ✂️ has moved _____ and _____.
- D. 😊 to ⬠ has moved _____ and _____.



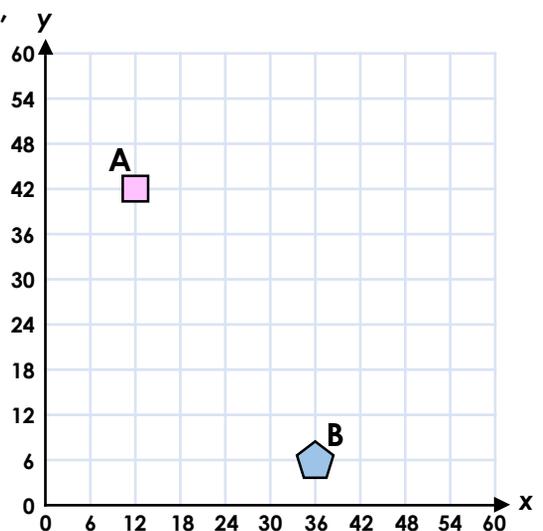
VF
HW/Ext

9. Benson is translating shapes on a grid. He says,

If shape A is translated 24 right and 30 down, it will be on the same x axis as shape B.



Is Benson correct? Convince me!



RPS
HW/Ext

Homework/Extension

Describe Movement

Developing

1. **A**
2. **A: up; B: down; C: 2 left; D: 2 down.**
3. **Yes because when shape B is translated the coordinates are (1, 4) and A is (2, 4), so they have the same y coordinate.**

Expected

4. **B**
5. **A: 1 right and 7 up; B: 2 right and 4 up; C: 6 right and 1 up; D: 2 left and 7 down.**
6. **No because when shape A is translated 5 up the new coordinates are (2, 7). Shape B coordinates are (7, 6), so they have a different y coordinate.**

Greater Depth

7. **A**
8. **A: 28 right and 16 up; B: 4 left and 24 down; C: 12 left and 8 up; D: 24 right and 28 up.**
9. **Yes because when shape A is translated 24 right and 30 down the new coordinates are (36, 12) and shape B is on (36, 6), so they have the same x coordinate.**