

Y4 Translations

KS2 Y4 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

Translate the point (2, 3) 4 squares right.

Step 1 · Moving right changes the across number

$$2 + 4 = 6$$

Step 2 · The up number stays the same

3

Answer: The new point is (6, 3)

Check: Count 4 jumps along the grid line ✓

2. Now try one with the steps

Translate the point (5, 6) 2 squares down.

Step 1 · Moving down changes the up number

Step 2 · The across number stays the same

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. Translate (3, 2) 1 square right. Where is it now?

2. Translate (5, 5) 3 squares left. Where is it now?

3. Translate (2, 1) 4 squares up. Where is it now?

4. Translate (6, 7) 5 squares down. Where is it now?

5. Describe the translation from (2, 2) to (7, 2).

6. Describe the translation from (4, 6) to (4, 1).

7. Translate (1, 3) 2 right and 3 up. Where is it now?

8. When a shape is translated, does it change size? Write yes or no.

9. Describe the translation from (6, 5) to (2, 1).

10. Translate (7, 2) 3 left and 4 up. Where is it now?

11. A point moved 2 right and 3 down to land on (5, 1). Where did it start?

12. A triangle has corners (1, 1), (3, 1) and (1, 4). Translate it 5 right. Give the new corners.

13. Describe the translation from (0, 8) to (6, 3).

14. Point A (2, 5) is translated to B (6, 7). Using the same translation, where does C (1, 1) go?

4. Before you hand it in

Counting the starting square first move.

Count the jumps from line to line. Moving 3 right means 3 jumps.

Changing the y-coordinate when moving left or right.

Left and right change the first (across) number. Up and down change the second (up) number.

Turning or flipping the shape moves.

A translation only slides. The shape keeps its size and faces the same way.

Moving each corner by a different amount.

Every vertex moves the same distance in the same direction. Check by counting for each corner.