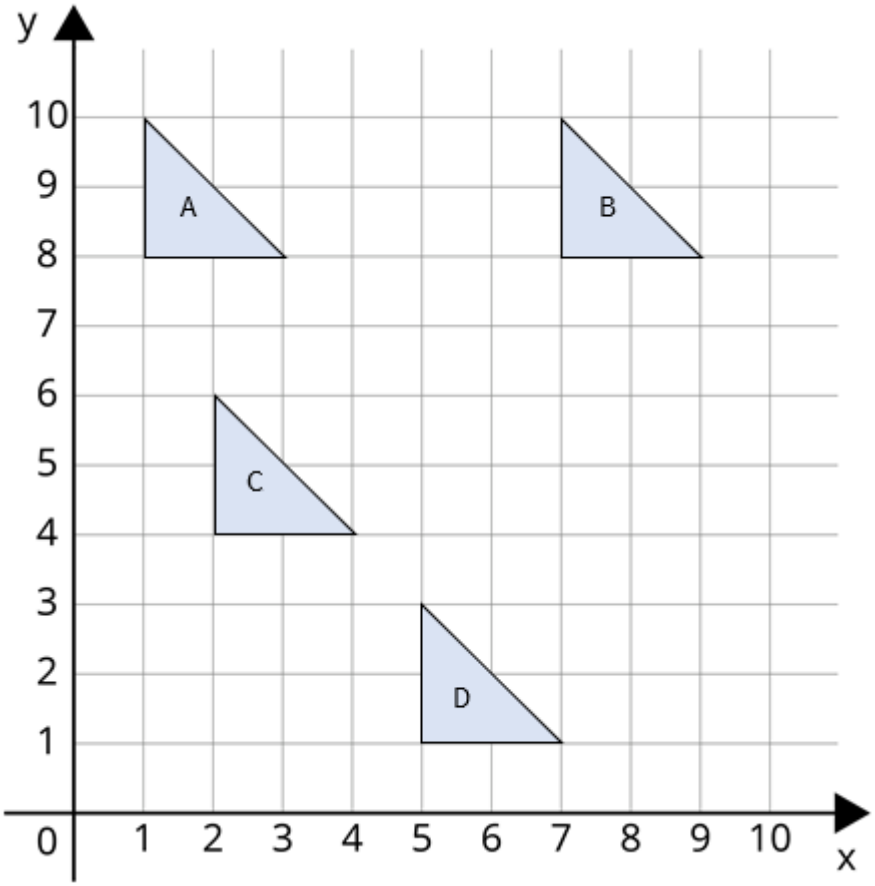
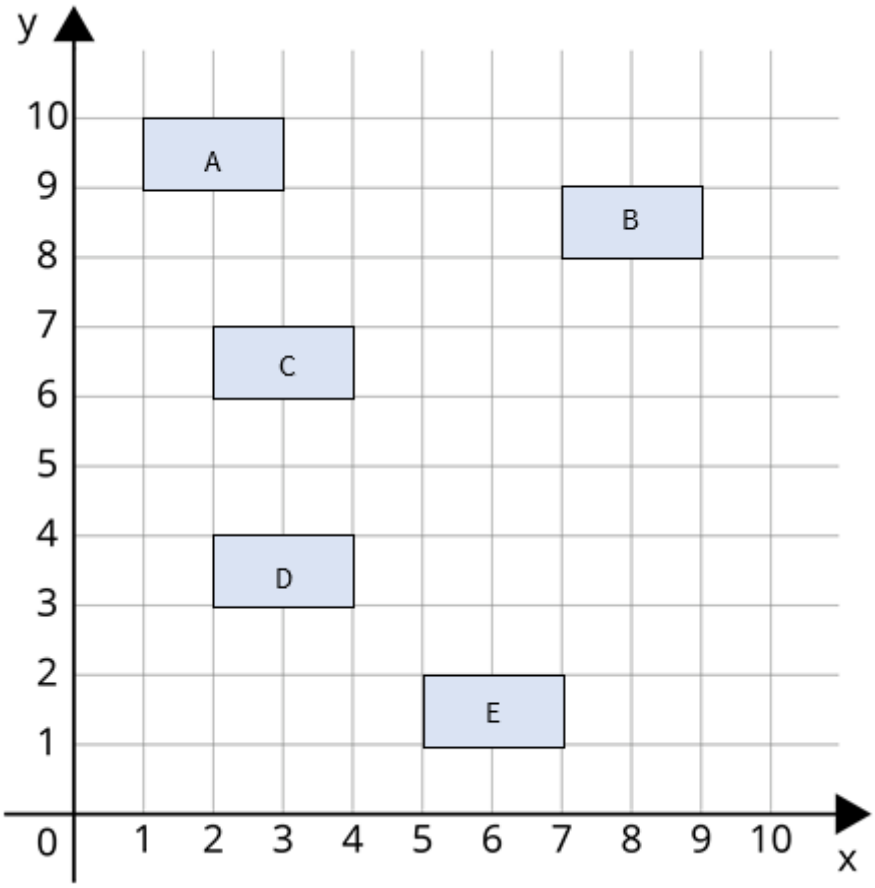
Grids





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Arithmetic

1. 5.04 + 0.06

2. 40 x 90

3. 48 x 4

4. 7.4 – 1.23

Practice: Translation

5. Recap: Define translation.

6. Triangle B is translated one square down and one left. Draw its new position.

7. Describe the translation from triangle A to C.

8. Triangle 1 is translated 3 squares to the left and 3 up to become triangle 2.

Which two triangles are they?

9. Translate rectangle C 2 squares to the right and 4 down.

What are its new coordinates?

10. Explain how you translate a shape.

11. Rectangle B has been translated so its new coordinates are (6,5) (8,5) (8,6) (6,6).

Describe its translation.

12. Translate these coordinates up 3 squares and left 2 and write the new coordinates.

(2,4) (7,3) (4,0)

13. Matilda says triangle A has been translated 6 down and 1 right to become triangle C. Is she correct? Explain.

Challenge

14. The answer is (2, 4).

Write at least 4 translation questions for the triangle or rectangle grid that would give this answer.

You might want to talk to an adult

Spot the mistake

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Answers

Q no.	Question	Answer
1	5.04 + 0.06	5.1
2	40 x 90	3,600
3	48 x 4	192
4	7.4 – 1.23	6.17
5	Define translation.	Translation means movement. When a shape has been translated, it has been moved up/ down and/ or left/ right to a new location.
6	Triangle B is translated one square down and one left. Draw its new position.	Correctly drawn triangle.
7	Describe the translation from triangle A to C.	4 squares down, 1 right
8	Triangle 1 is translated 3 squares to the left and 3 up to become triangle 2.	D and C
9	Translate rectangle C 2 squares to the right and 4 down.	(6,2) (4,2) (4,3) (6,3)
10	Explain how you translate a shape.	Pupils should describe their method from translating shapes. When translating shapes, it is easiest to translate one vertex at a time.
11	Describe its translation.	Down 3 squares, left 1
12	Translate these coordinates up 3 squares and left 2 and write the new coordinates.	(0,7) (5,6) (2,3)
13	Matilda says triangle A has been translated 6 down and 1 right to become triangle C. Is she correct? Explain.	Matilda is incorrect. She has taken the top vertex of triangle A and has translated it to the right-angle triangle vertex of triangle C. As pupils are required to remember the vertex they are translating and count the movement, some pupils can become confused.
14	The answer is (2, 4). Write at least 4 translation questions for the triangle or rectangle grid that would give this answer.	Answers will vary. Example answers: Rectangle C is translated 3 down, write one of the new coordinates. Rectangle B is translated 5 left and 6 down, write one of the new coordinates. Triangle A is translated 4 down and 1 right, write one of the new coordinates.

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