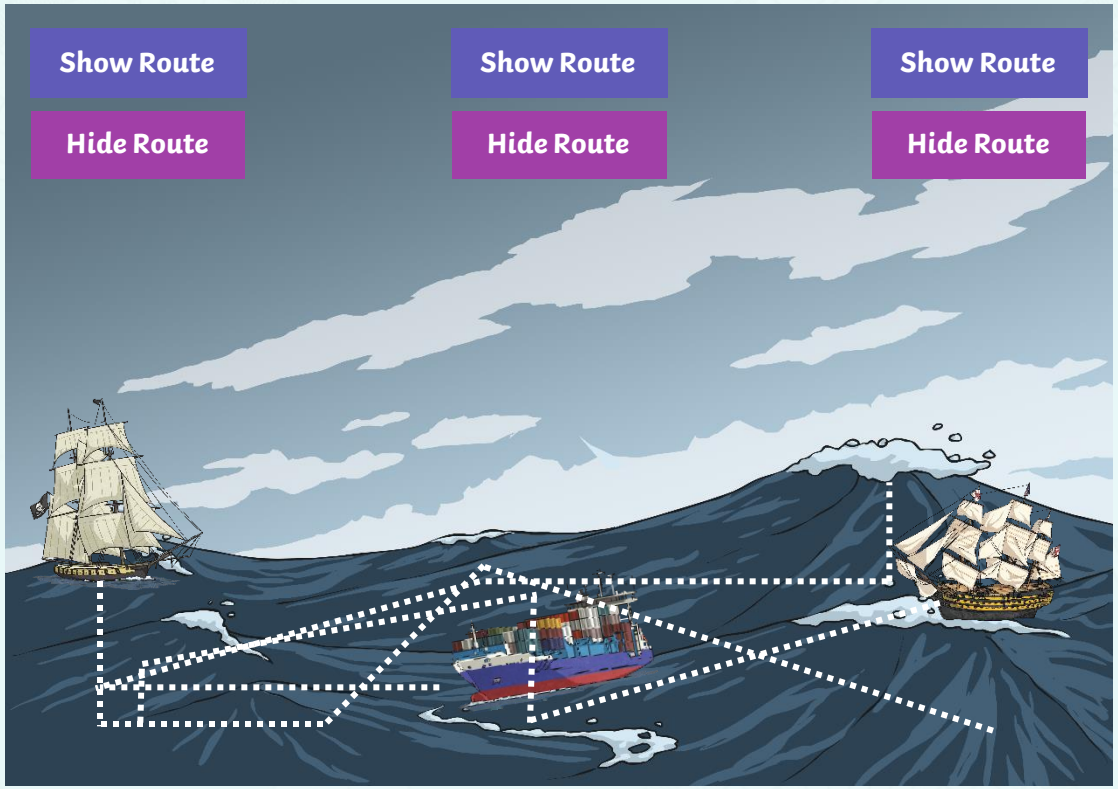
2D Shape Translations

twinkl

Stormy Seas

Use the vocabulary of position and direction to describe the routes the boats travel across the stormy sea. **Click on the boats to see the routes.**

north
east
south
west
above
below
between
higher
lower
left
right

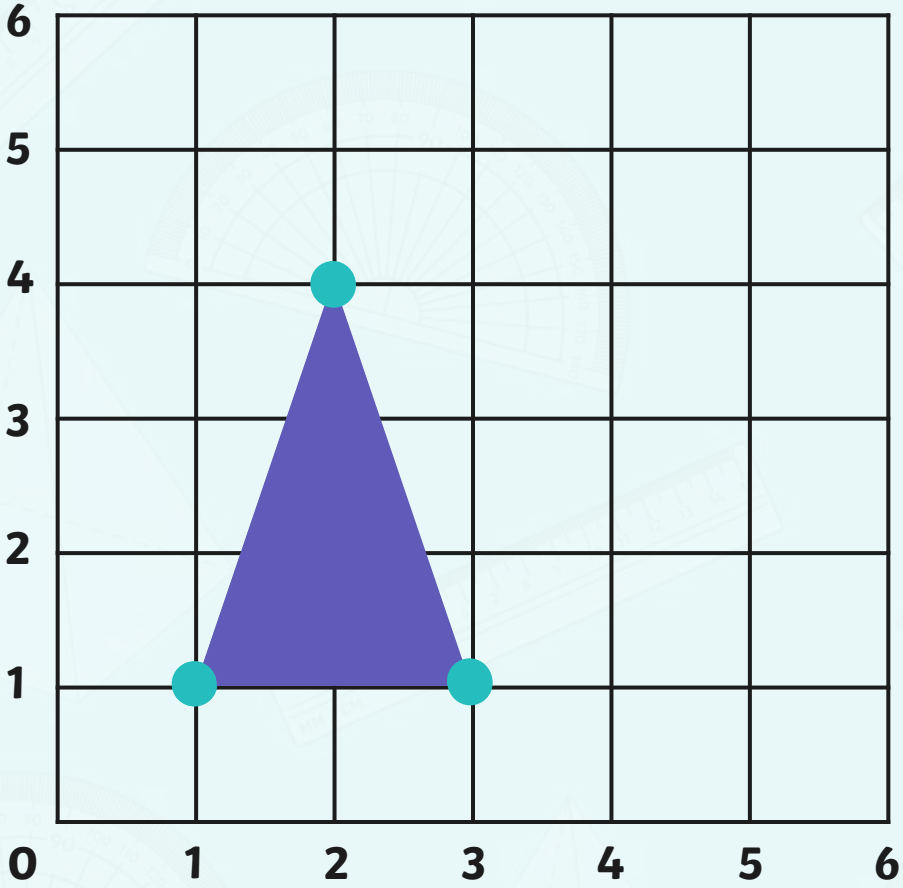


worth-east
south-east
south-west
north-west
horizontal
vertical
diagonal
row
column
parallel

Show supporting vocabulary word bank

Hide supporting vocabulary word bank

Translating 2D Shapes



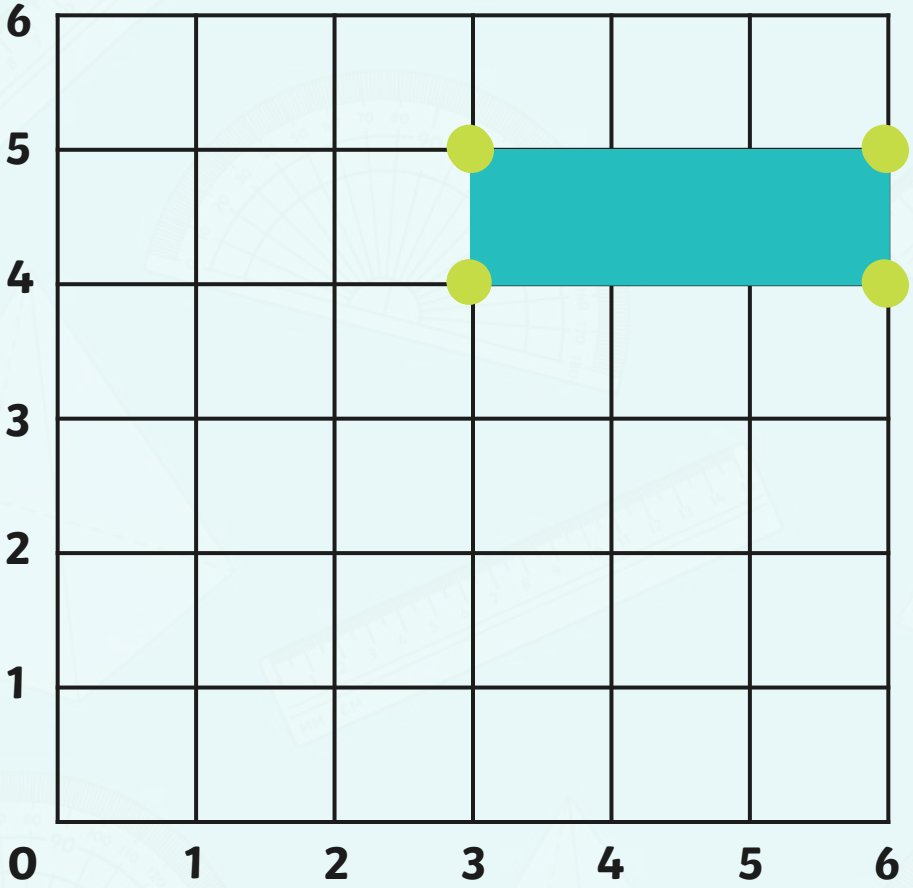
In maths, translation means moving an object on a grid.

The object is moved without changing the size, turning or reflecting it.

When translating a **2D shape** on a grid we have to make sure that **each corner** of the shape is moved the **same direction** and the **same number.**

Click on the purple triangle to translate it **right 3, up 2** on the grid.

Translating 2D Shapes



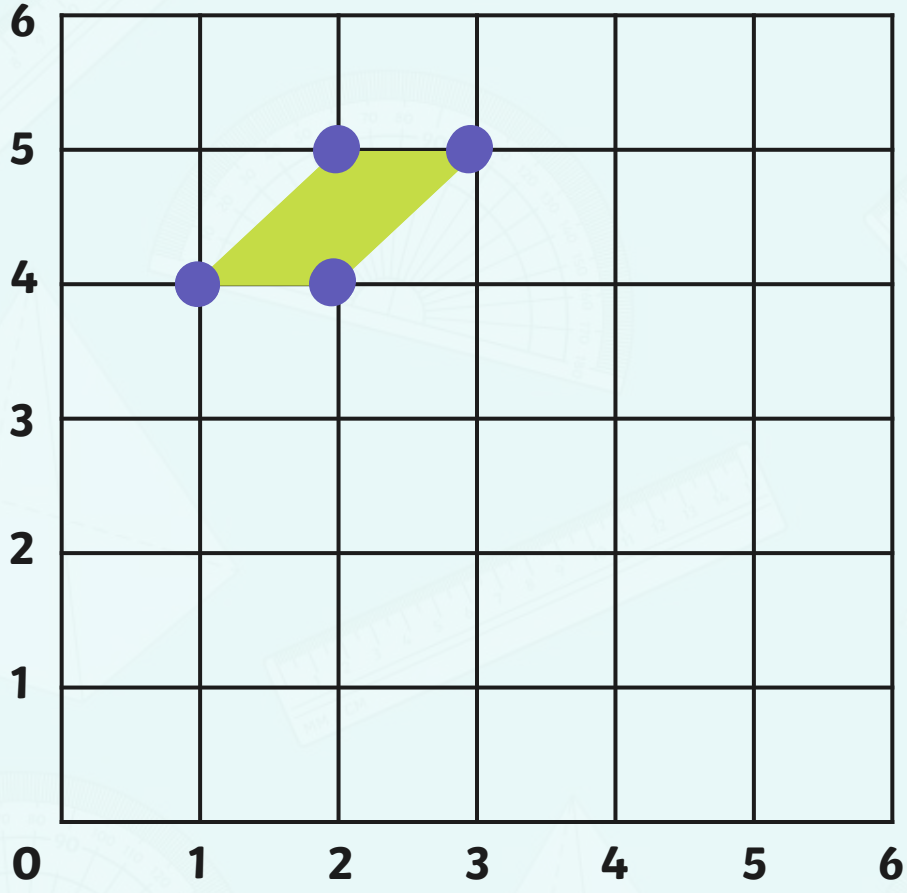
In maths, translation means moving an object on a grid.

The object is moved without changing the size, turning or reflecting it.

When translating a **2D shape** on a grid we have to make sure that **each corner** of the shape is moved the **same direction** and the **same number.**

Click on the blue rectangle to translate it **left 2, down 4** on the grid.

Translating 2D Shapes



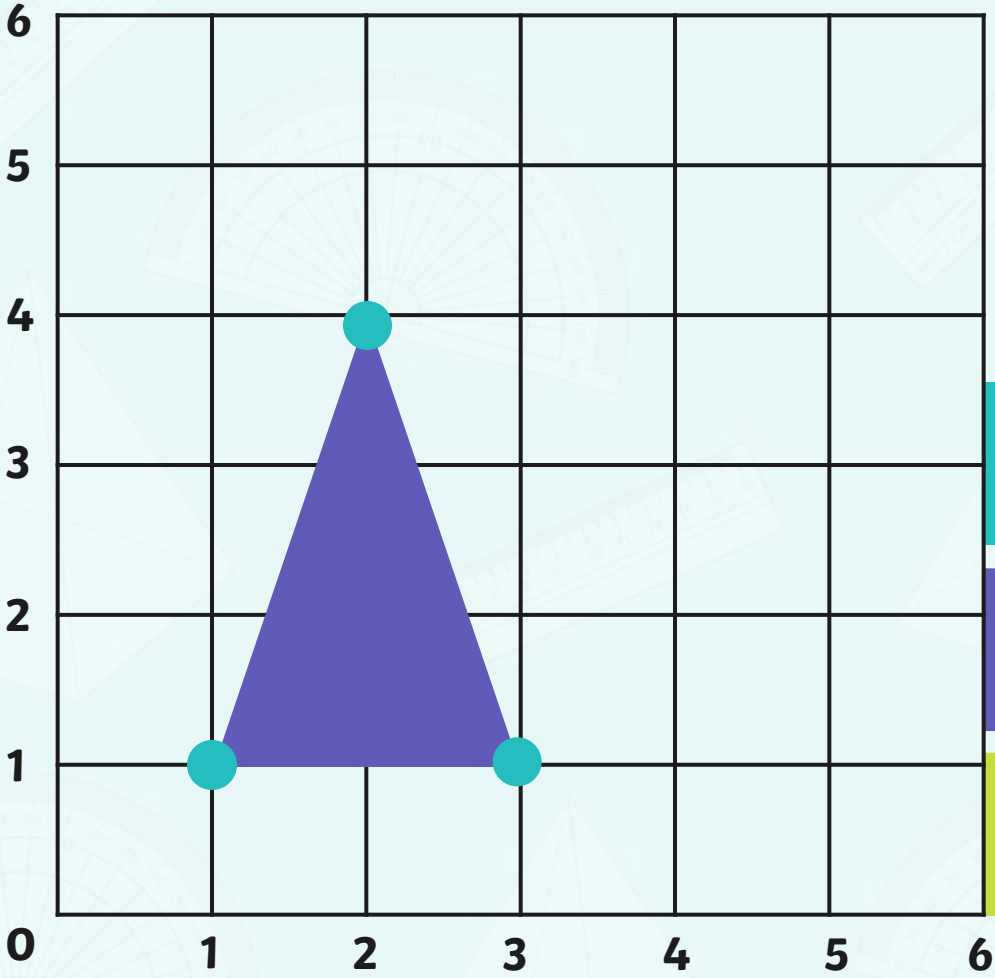
In maths, translation means moving an object on a grid.

The object is moved without changing the size, turning or reflecting it.

When translating a **2D shape** on a grid we have to make sure that **each corner** of the shape is moved the **same direction** and the **same number.**

Click on the green parallelogram to translate it **right 1, down 2** on the grid.

Translating 2D Shapes



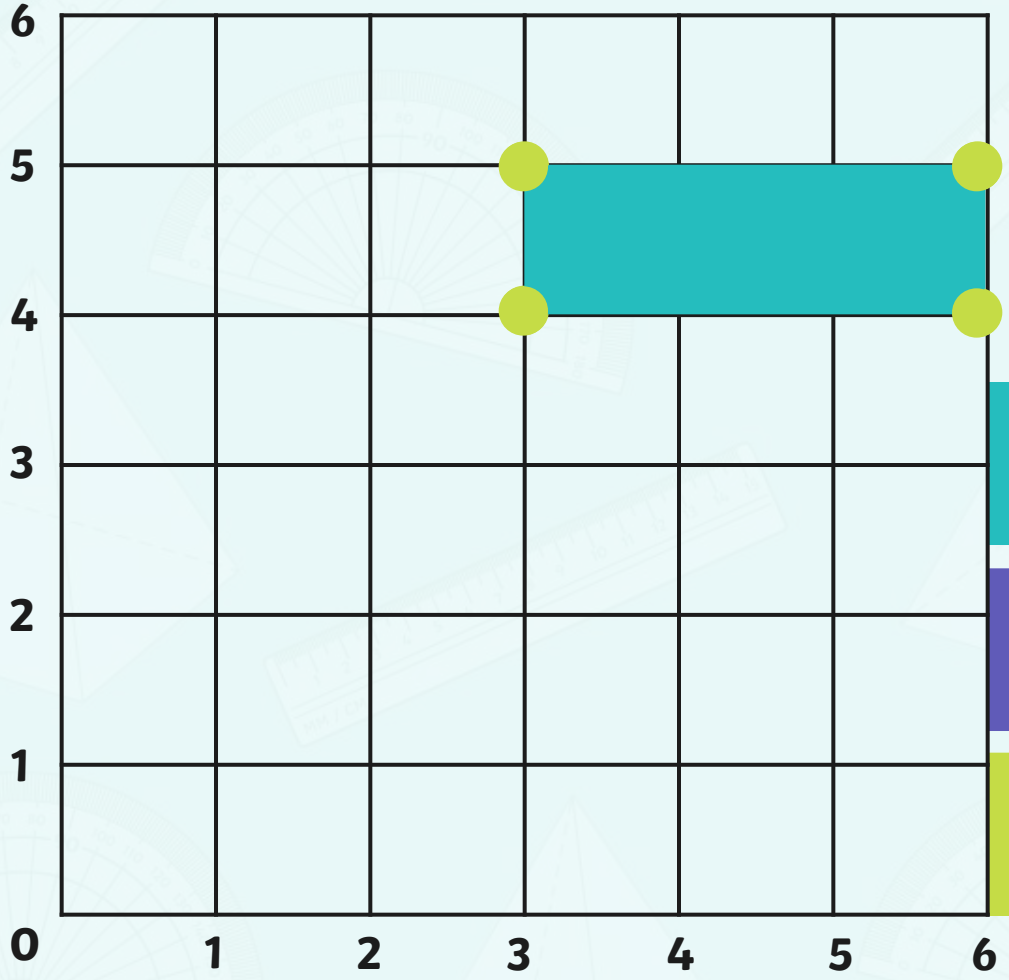
When describing the translation of the purple triangle, we can also include the coordinates of the starting and finishing position:

Starts at
(1,1), (3,1), (2,4)

Translates
Right 3, Up 2

Finishes at
(4, 3), (6,3), (5,6)

Translating 2D Shapes



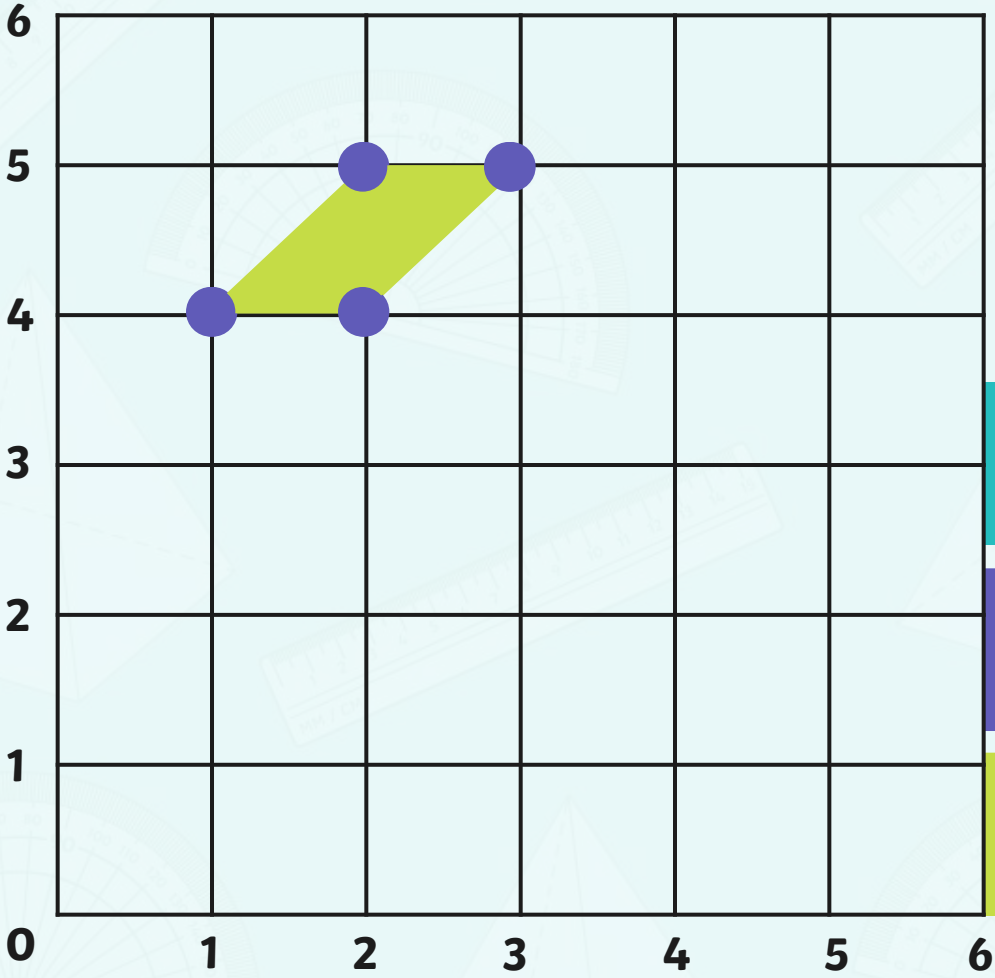
When describing the translation of the blue rectangle, we can also include the coordinates of the starting and finishing position:

Starts at
(3,4), (6,4), (6,5), (3,5)

Translates
Left 2, Down 4

Finishes at
(1,0), (4,0), (4,1), (1,1)

Translating 2D Shapes



When describing the translation of the green parallelogram, we can also include the coordinates of the starting and finishing position:

Starts at
(1,4), (2,4), (3,5), (2,5)

Translates
Right 1, Down 2

Finishes at
(2,2), (3,2), (4,3), (3,3)

Translating 2D Shapes Quiz

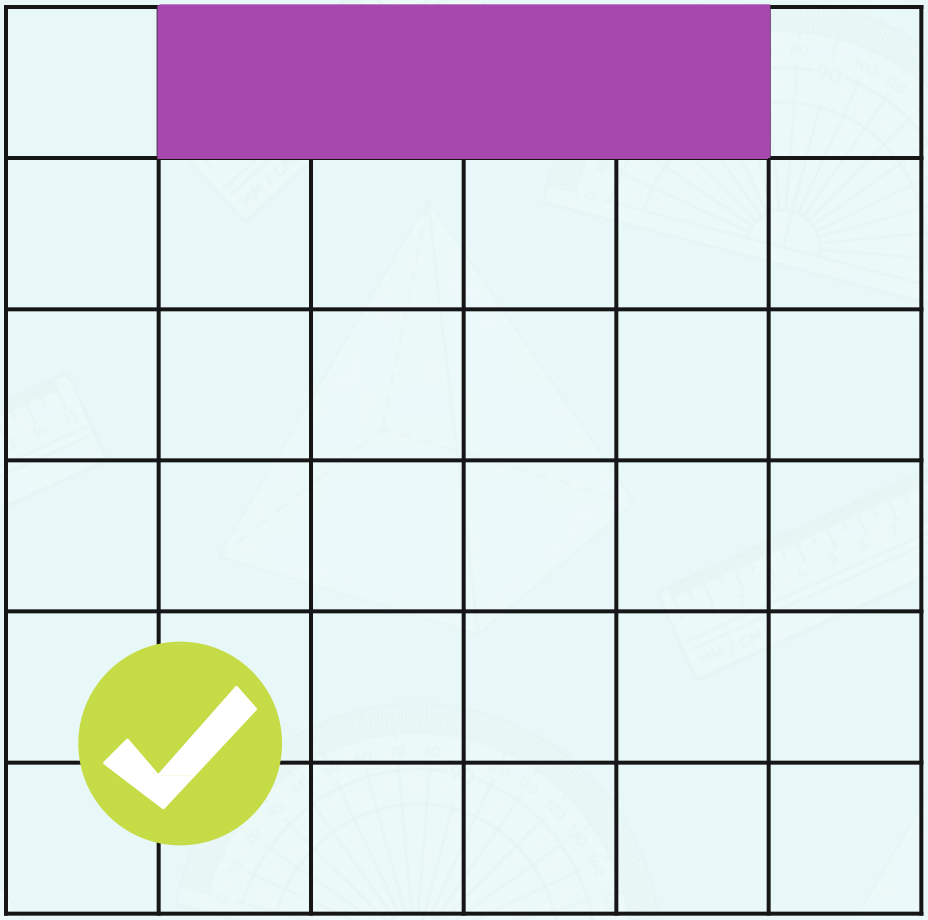
Click on the rectangle. How has it been translated?

Whole Class

Up 4

Up 3

Down 4



Translating 2D Shapes Quiz

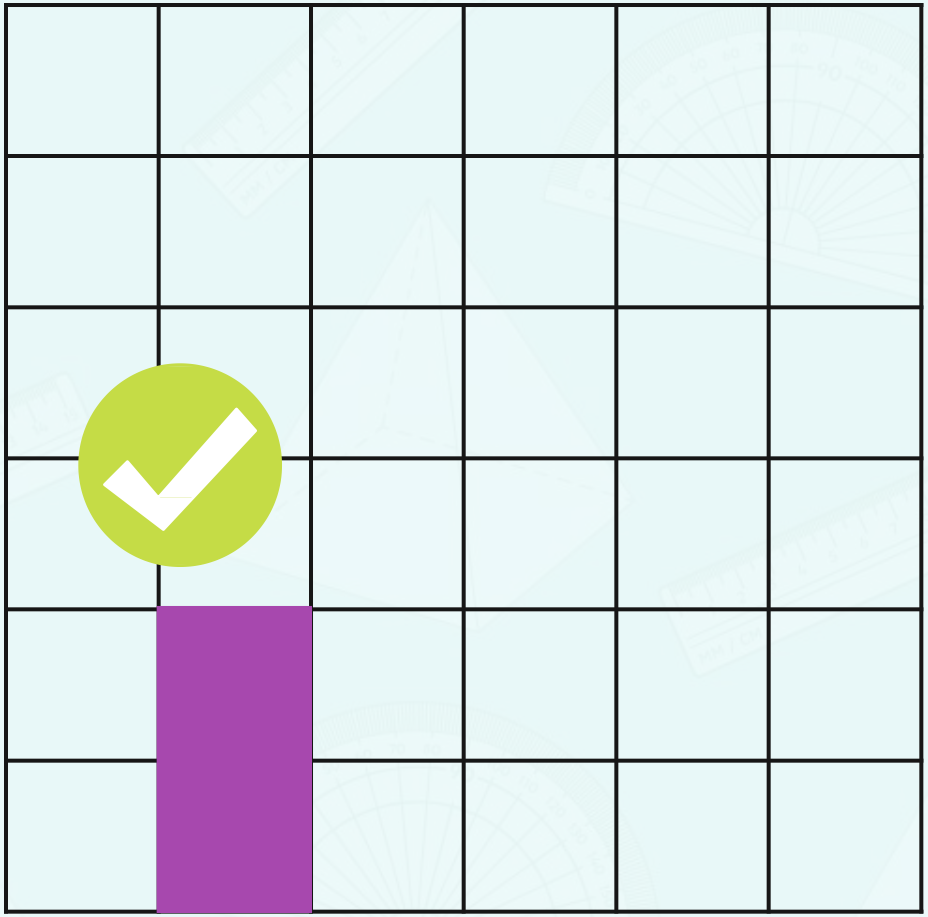
Whole Class

Click on the rectangle. How has it been translated?

Left 3
Up 3

Right 3
Up 3

Right 4
Up 4



Translating 2D Shapes Quiz

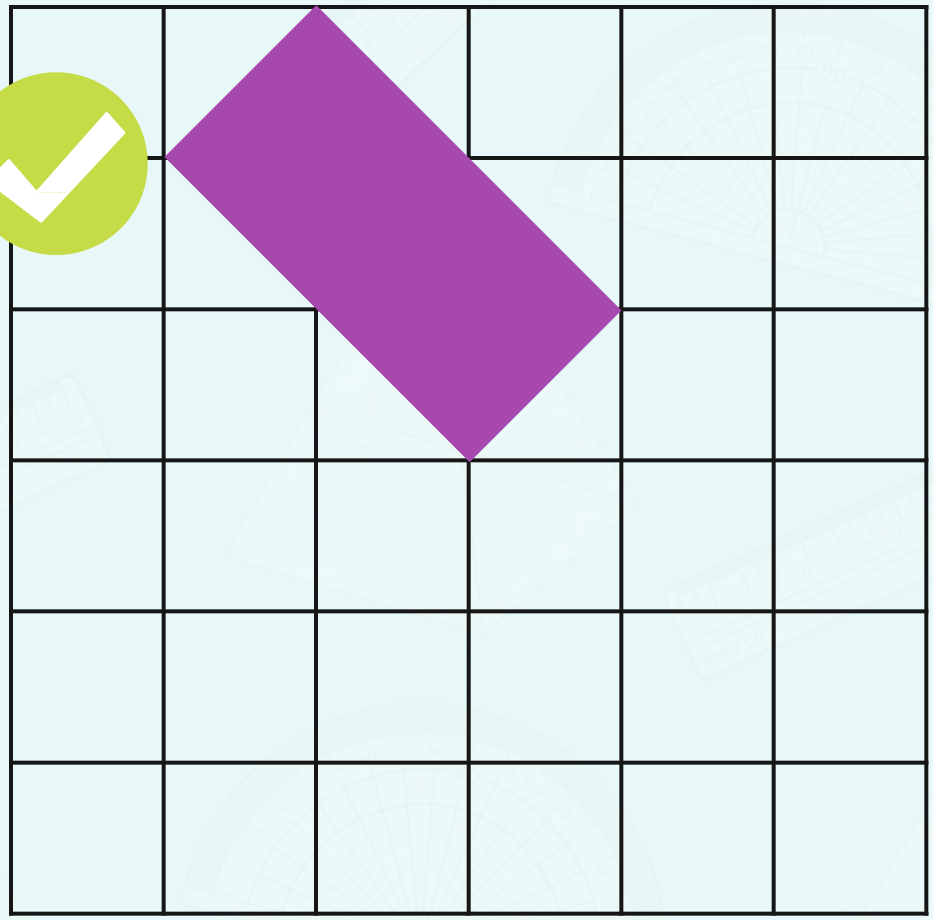
Whole Class

Click on the rectangle. How has it been translated?

Right 2
Down 3

Right 3
Down 3

Left 3
Down 2

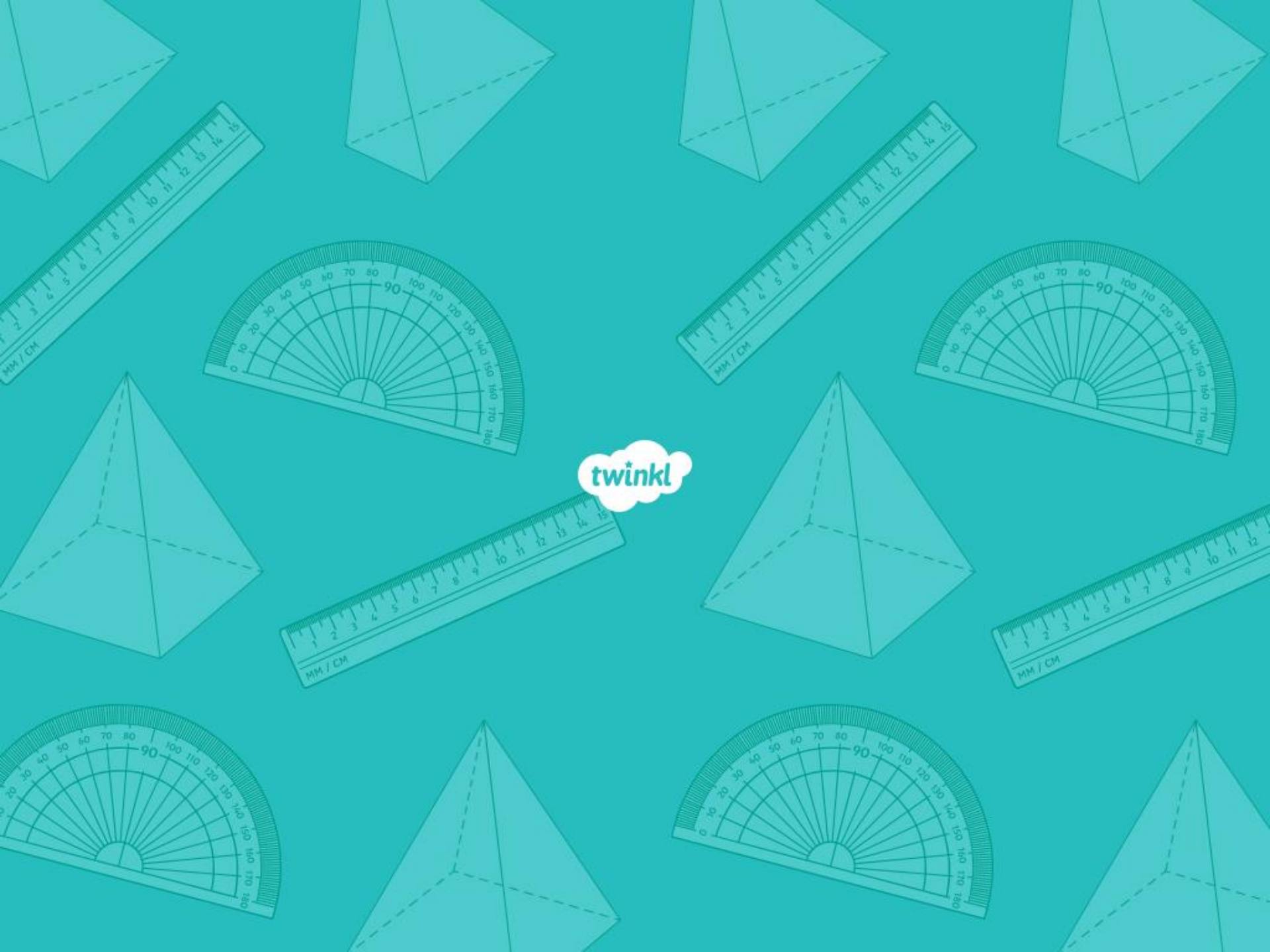


Aim

- To describe the translation of a 2D shape on a coordinate grid.

Success Criteria

- I can label the x-axis and y-axis.
- I know that translation is a movement from one position to another, without turning.
- I can combine translation with coordinates.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