

Aim

• I can draw the position of a shape following a translation.

Success Criteria

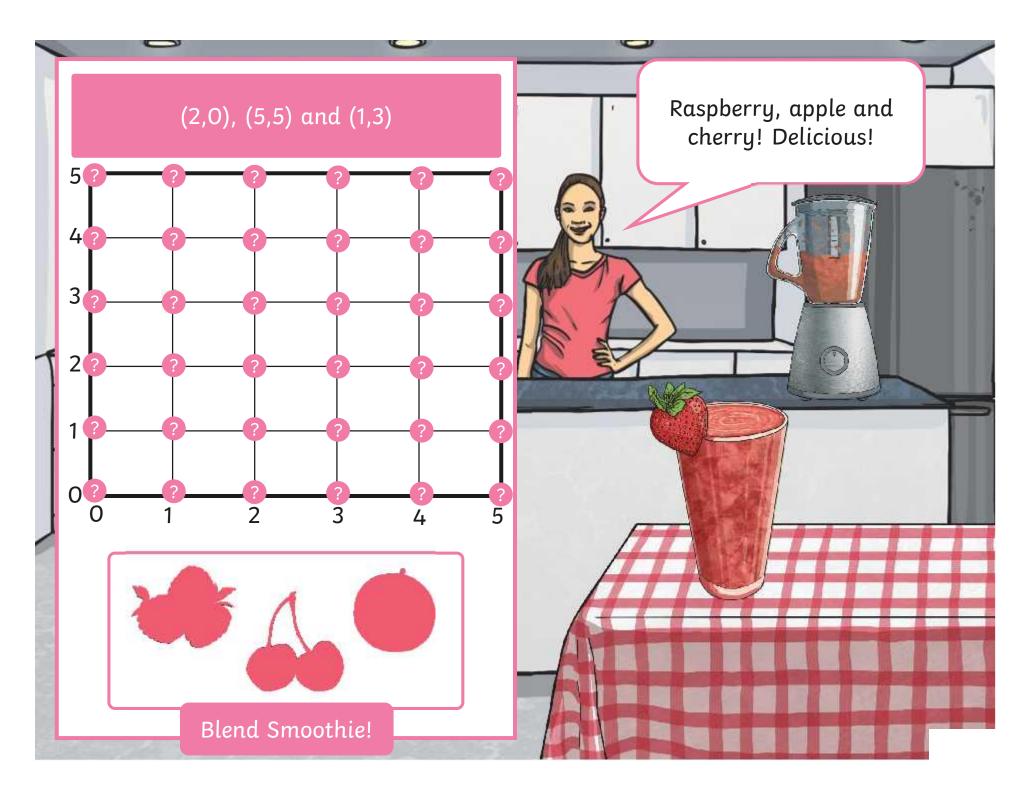
- I can read, write and plot coordinates in the first quadrant.
- I know that translation is a movement from one position to another without rotation or resizing.

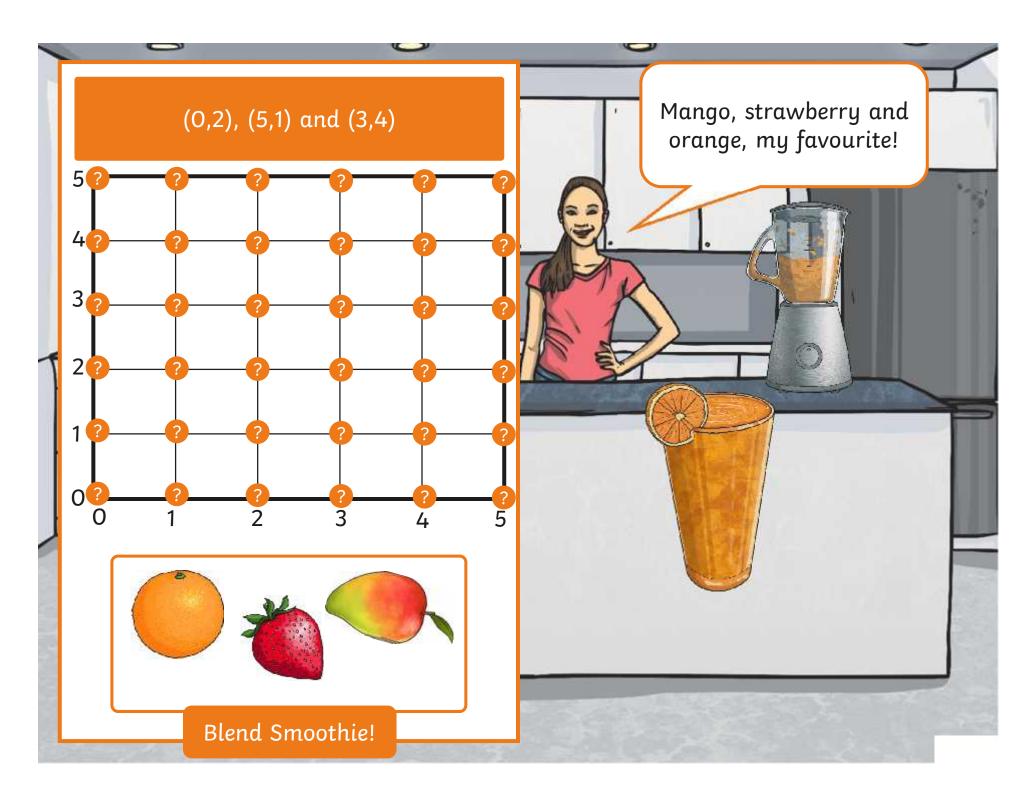
Fruit Smoothie Coordinates

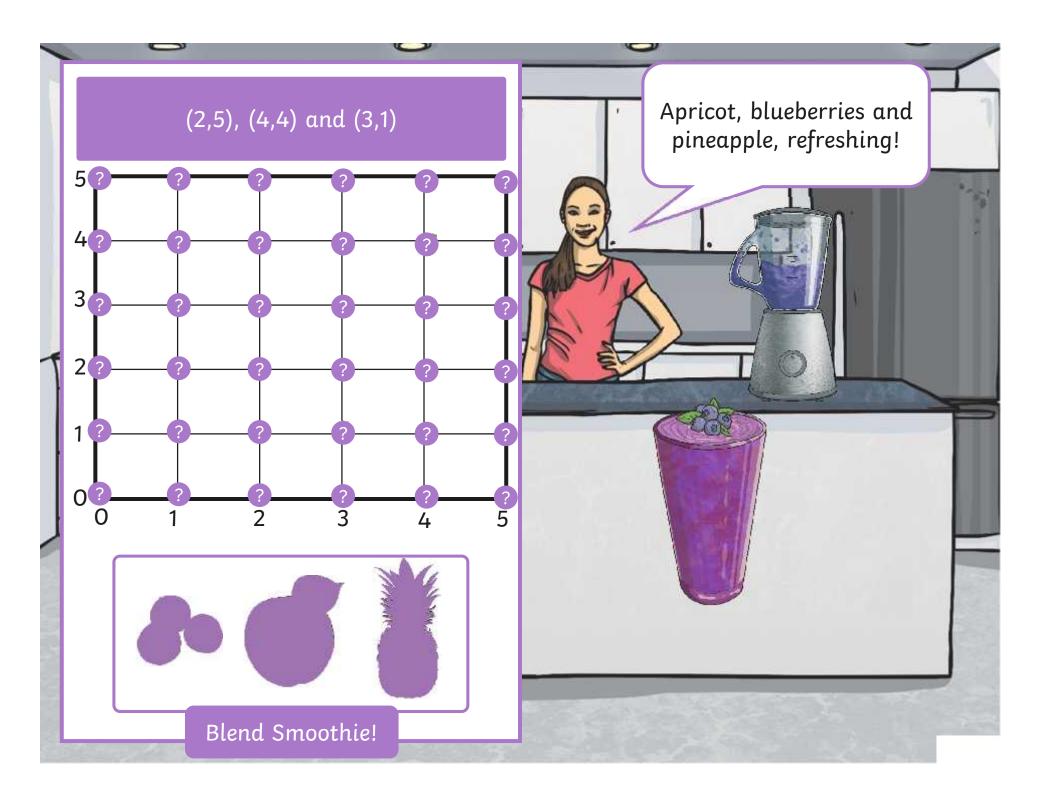


Collect the ingredients to help the woman blend a super fruit smoothie by reading and plotting the coordinates correctly.

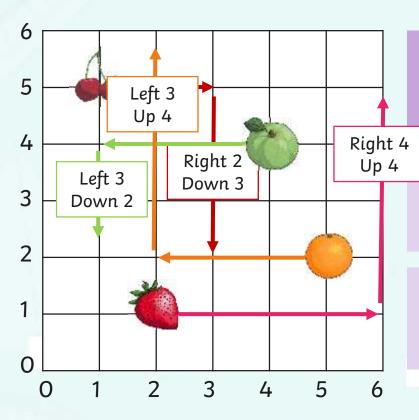








Translation on a Coordinate Grid



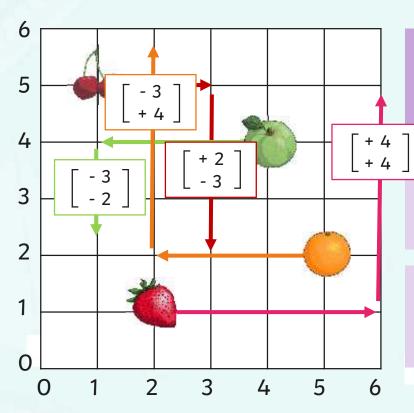
In maths, translation means moving an object from one position to another.

The object is moved without rotation, reflection or resizing.

When translating an object on a grid, it can slide up or down, left or right.

Click on the different fruit to see them being translated on the coordinate grid.

Describing Translation as a Vector



As well as describing a translation as a move to the right, left, up or down, we can also use a **vector**.

A vector describes a move to the right or up as a **positive** number (+).

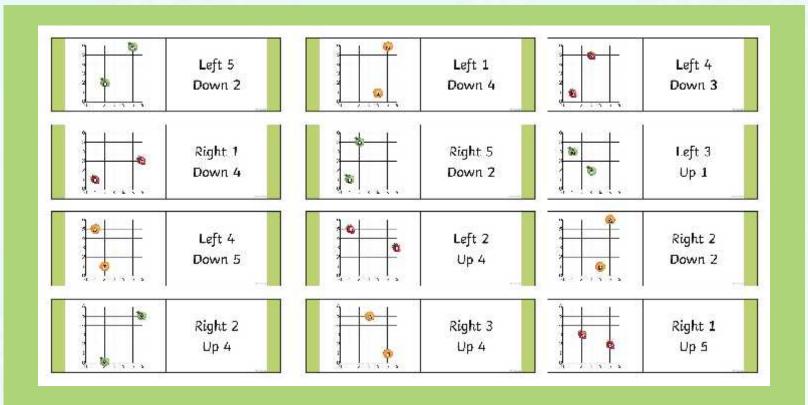
A vector describes a move to the left or down as a **negative** number (-).

Click on the different fruit to see their translations being recorded as vectors.

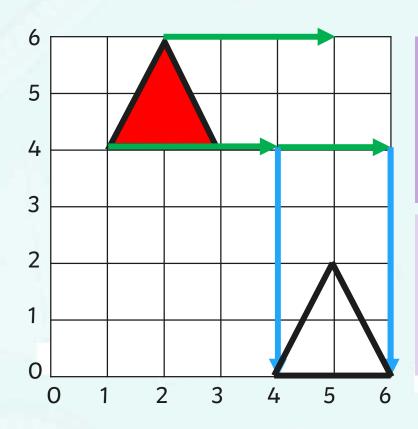
Fruit Translation Dominoes



Work with a friend to match the grids and translations correctly.



Drawing a Translated Shape



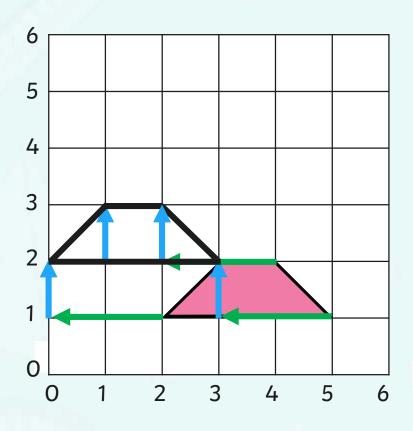
When asked to draw a 2D shape in the new position after a translation, we have to make sure that **each corner** of the shape is moved the **same direction** and the **same number**.

The **triangle** is translated

Right 3
Down 4

Click on the triangle to see how to draw it in its new position.

Drawing a Translated Shape



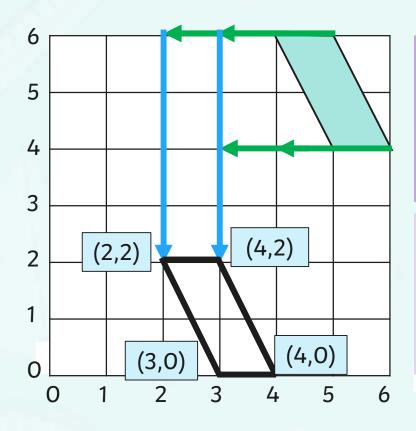
When asked to draw a 2D shape in the new position after a translation, we have to make sure that **each corner** of the shape is moved the **same direction** and the **same number**.

The **trapezium** is translated

Left 2 Up 1

Click on the trapezium to see how to draw it in its new position.

Drawing a Translated Shape



When asked to draw a 2D shape in the new position after a translation, we have to make sure that **each corner** of the shape is moved the **same direction** and the **same number**.

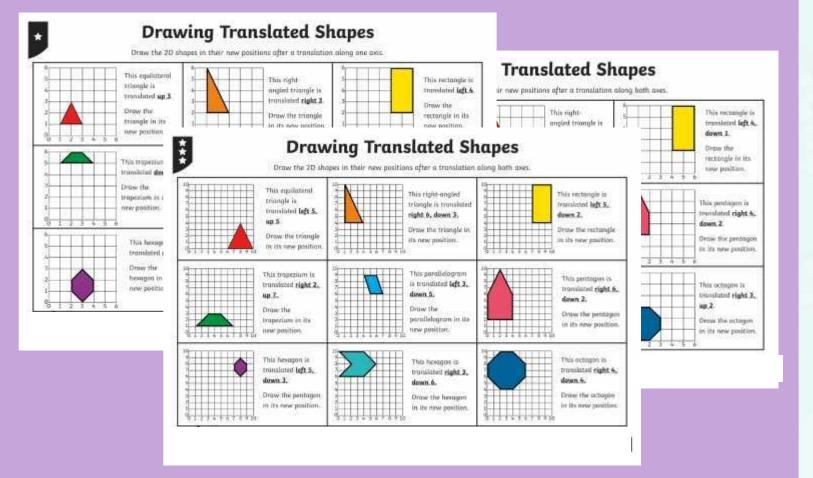
The **parallelogram** is translated

Left 2 Down 4

Click on the parallelogram to see how to draw it in its new position.

Drawing Translated Shapes



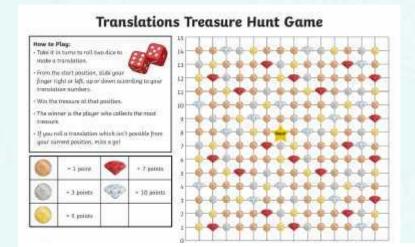


Translation Treasure Hunt



How to play:

- Take it in turns to roll two dice to make a translation.
- From the start position, slide your finger right or left, up or down according to your translation numbers.
- Win the treasure at that position.
- The winner is the player who collects the most treasure.
- If you roll a translation number which isn't possible from your current position, miss a go!



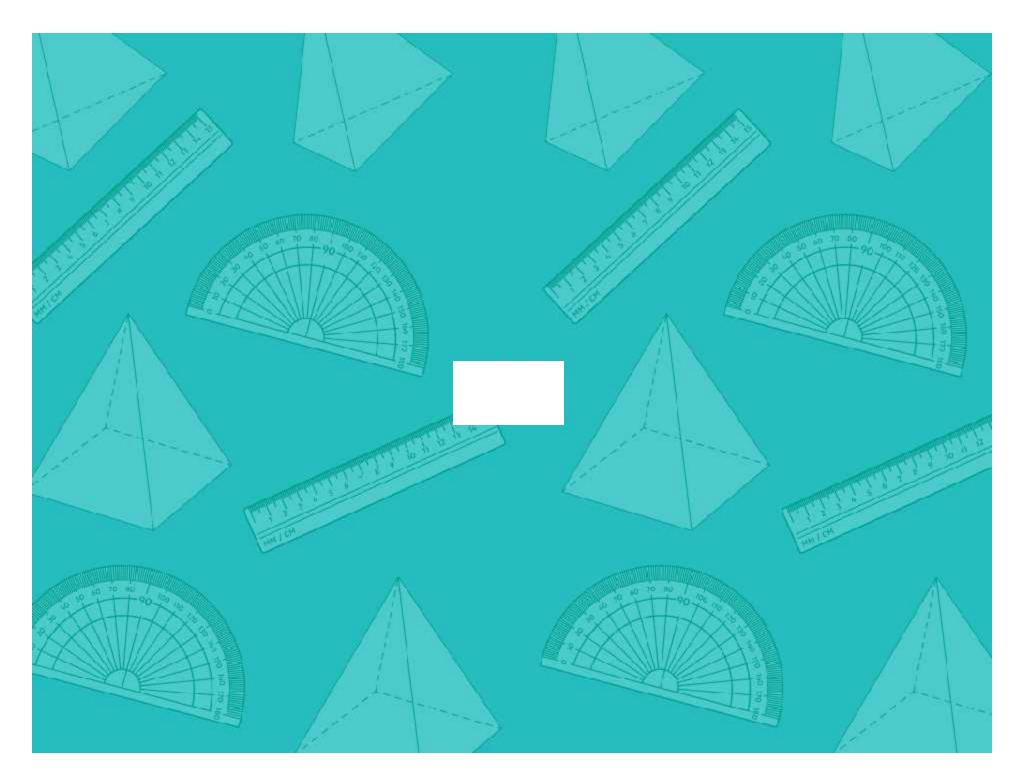
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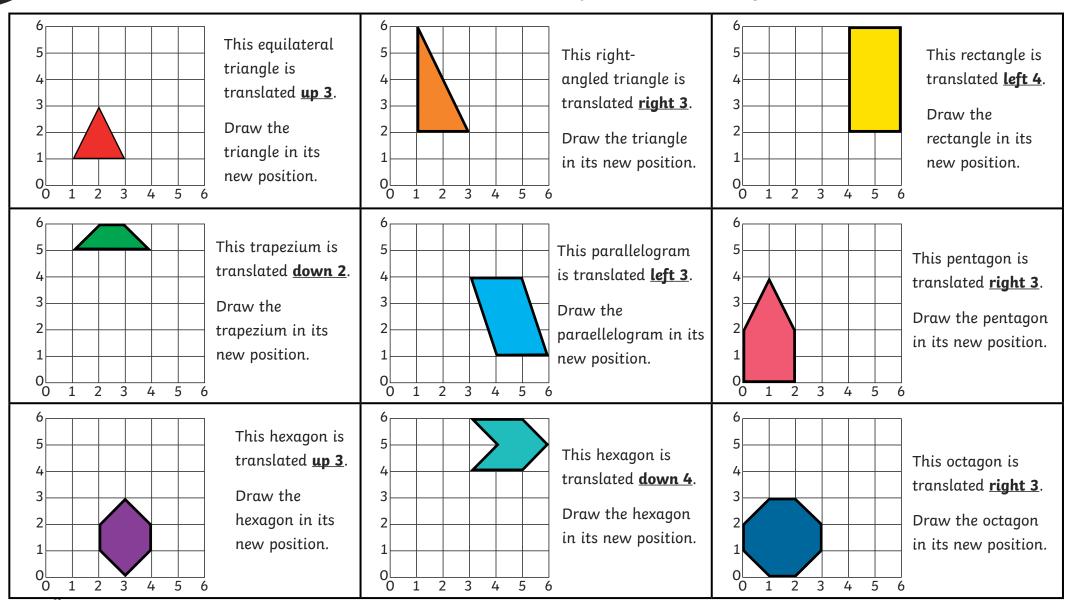
Aim: I can draw the position of a shape following a trans	slation.			Date	2:				
				Delivered By: Suppor			upport:	rt:	
Success Criteria	Me	Friend	Teacher	Т	PPA	s	I	AL	GP
I can read, write and plot coordinates in the first quadrant.				Notes/Evidence					
I know that translation is a movement from one position to another without rotation or resizing.									
Next Steps									
J									
)									
		т	Teacher				I	Independen	t
		PPA	Planning, Pre	paration	and Asses	ssment	AL	Adult Led	
		s	Supply				GP	Guided Prac	ctice

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S Supply

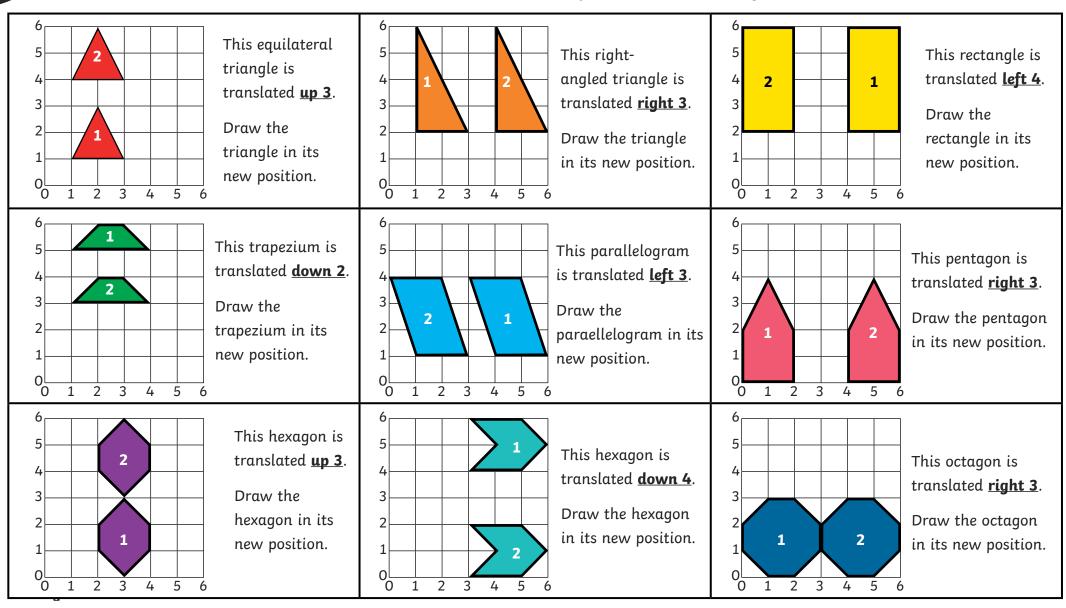


Drawing Translated Shapes



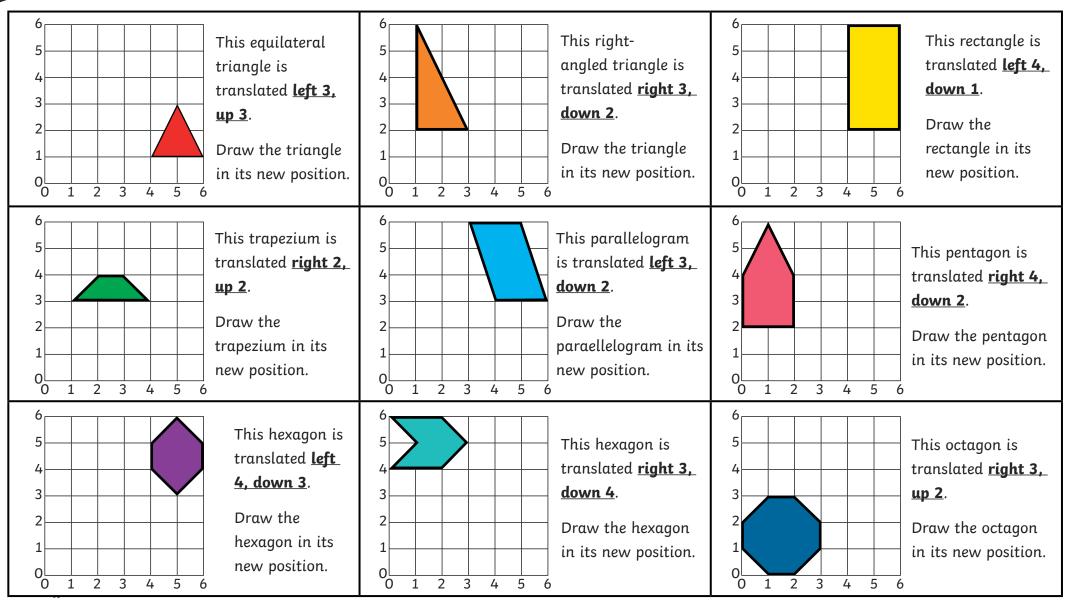


Drawing Translated Shapes Answers



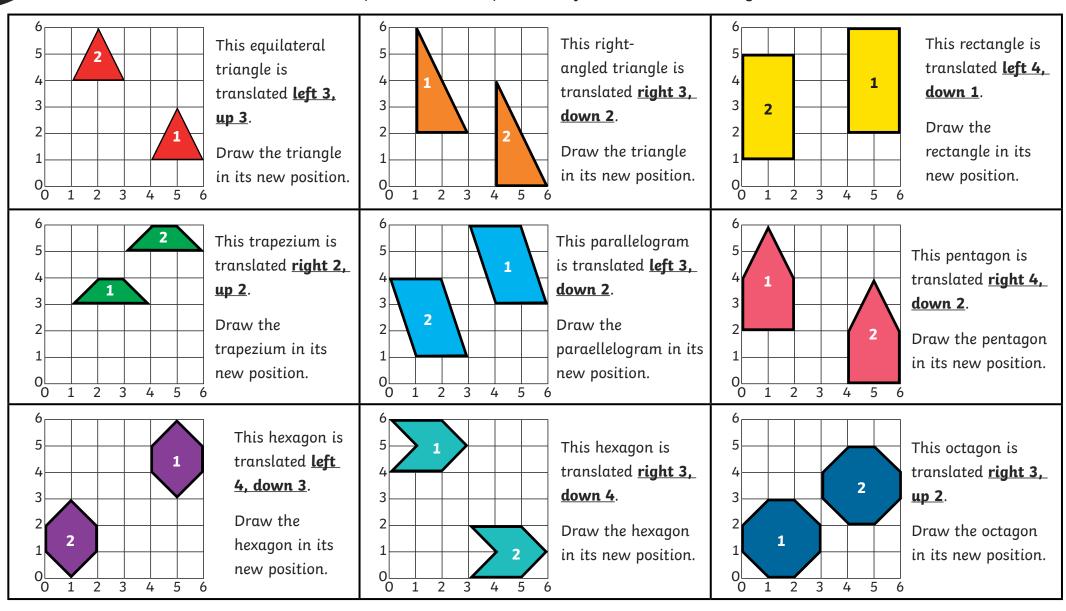


Drawing Translated Shapes



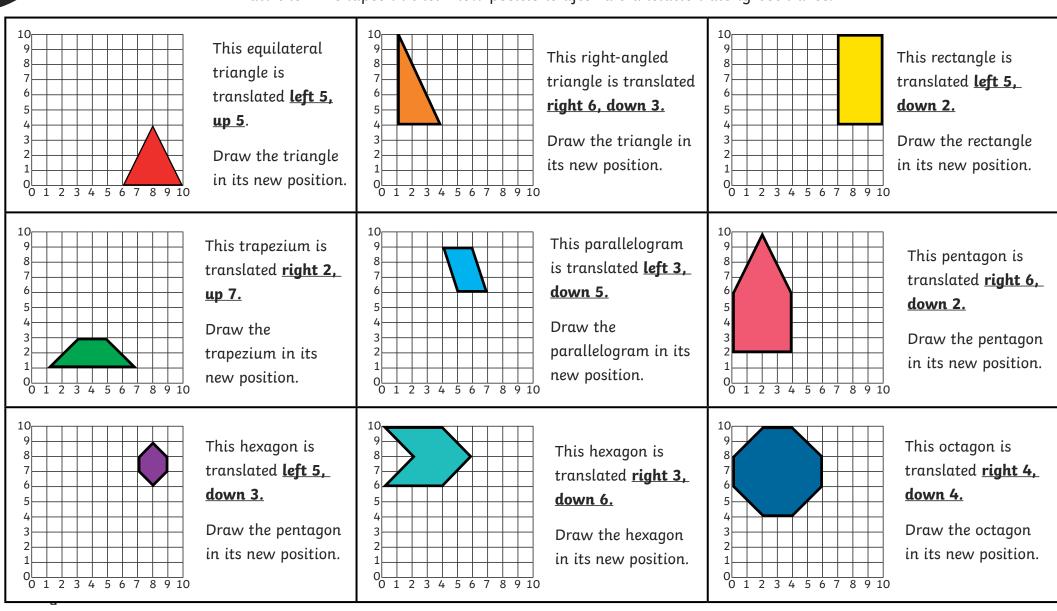


Drawing Translated Shapes Answers



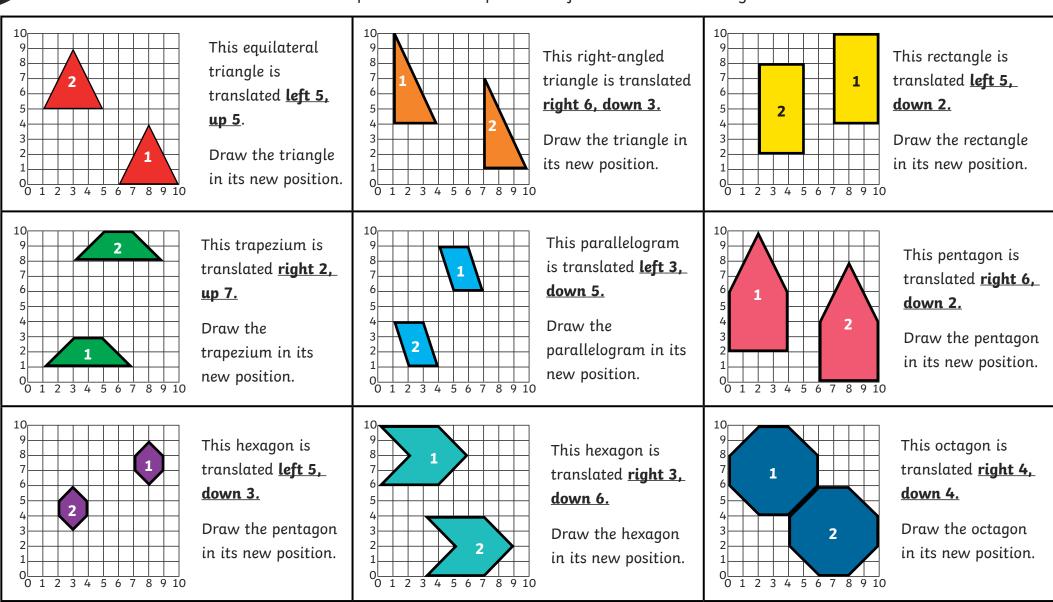


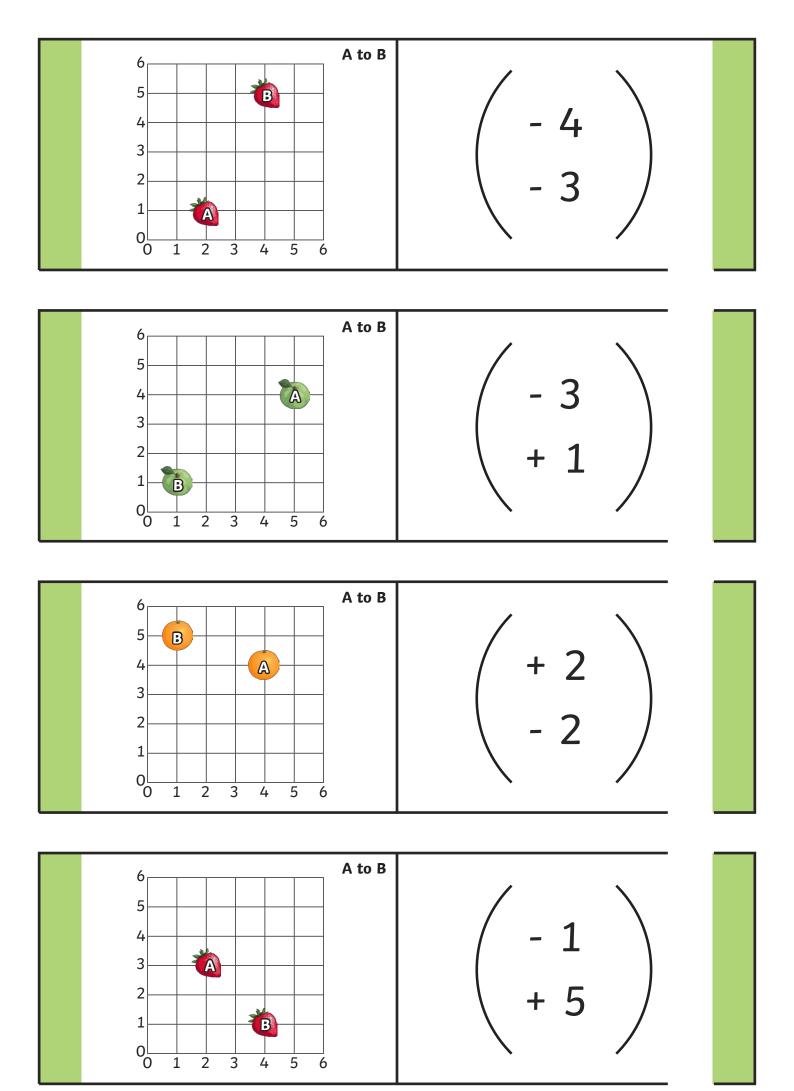
Drawing Translated Shapes



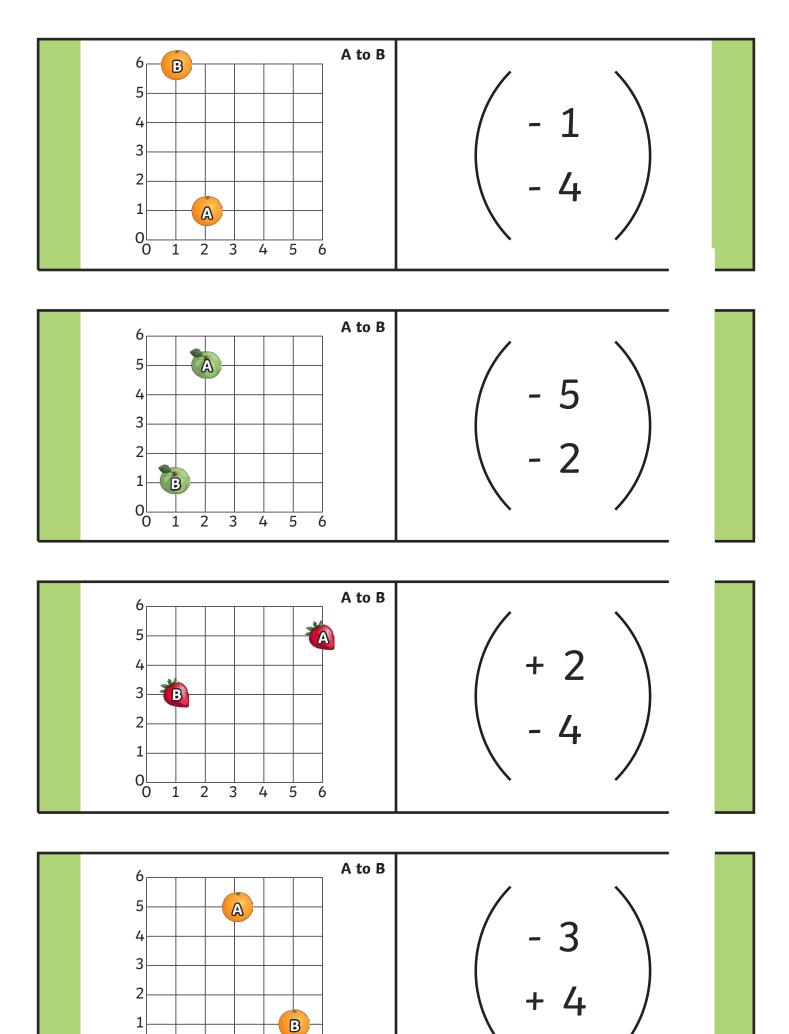


Drawing Translated Shapes Answers

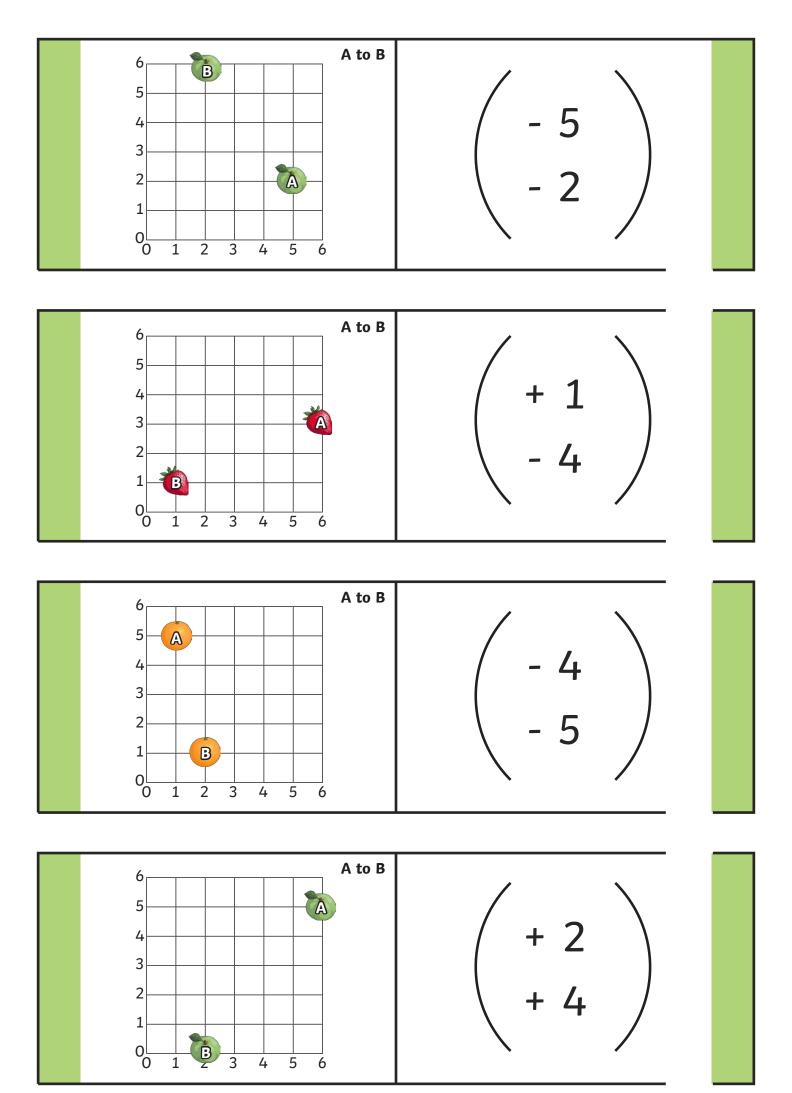




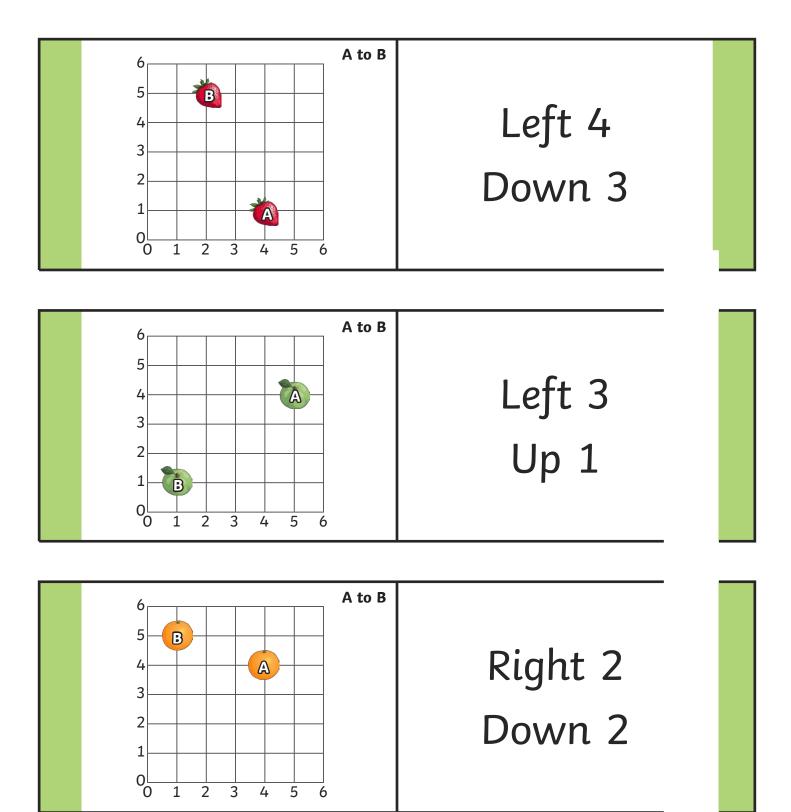
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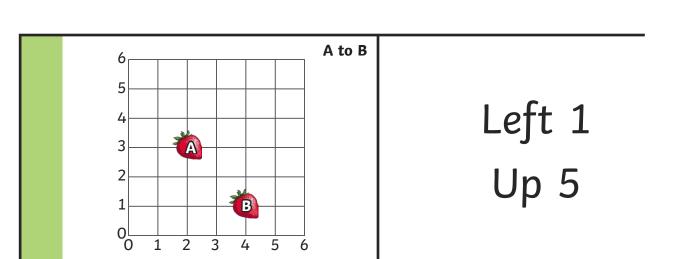


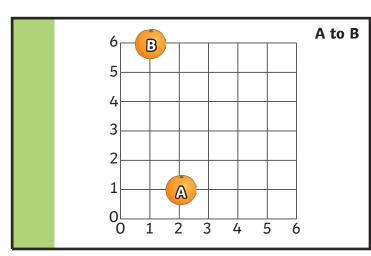




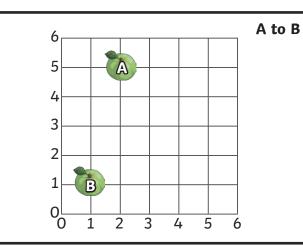
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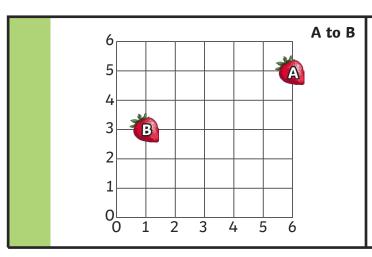




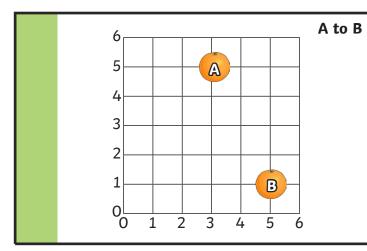
Left 1 Down 4



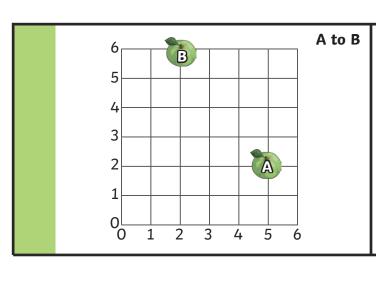
Left 5 Down 2



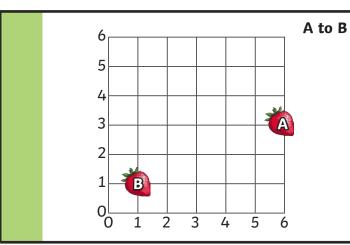
Right 2 Down 4



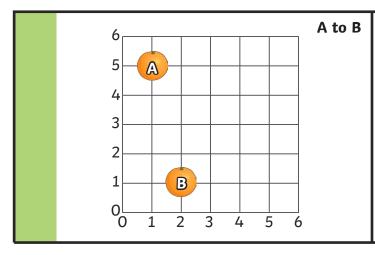
Left 3 Up 4



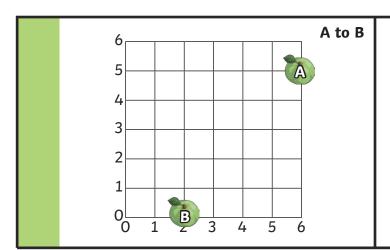
Left 5 Down 2



Right 1 Down 4



Left 4 Down 5



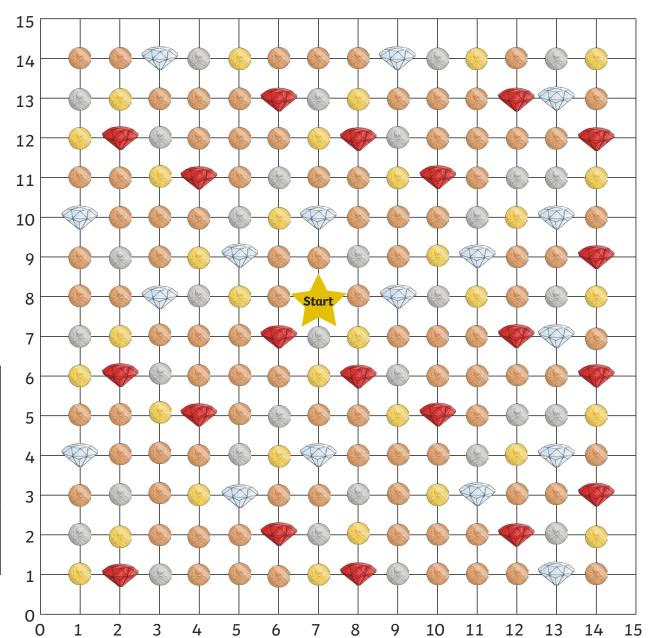
Left 2 Up 4

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- The winner is the player who collects the most treasure.
- If you roll a translation which isn't possible from your current position, miss a go!

	= 1 point	= 7 points
	= 3 points	= 10 points
44	= 5 points	



Measurement and Geometry | Drawing Translated Shapes

I can draw the position of a shape following a translation.	
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