Lesson 4

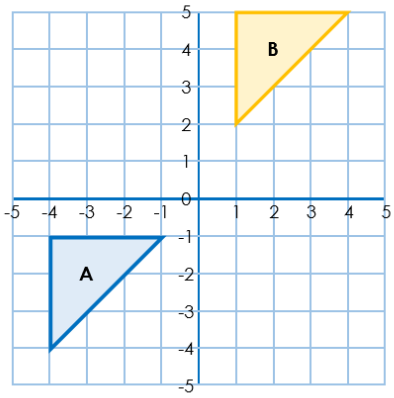
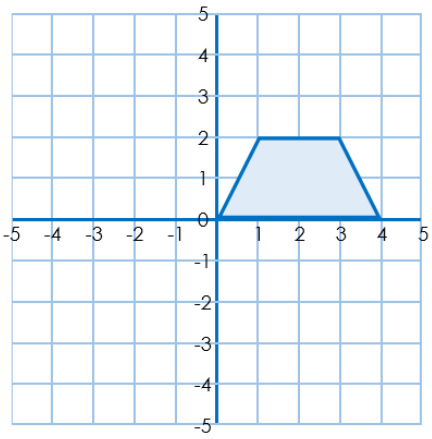
L.O I am learning to translate shapes across four quadrants.

All	All of you must complete the fluency section.
Most	Most of you will compete the fluency and reasoning sections.
Some	Some of you will complete the fluency, reasoning, and problem-solving sections.

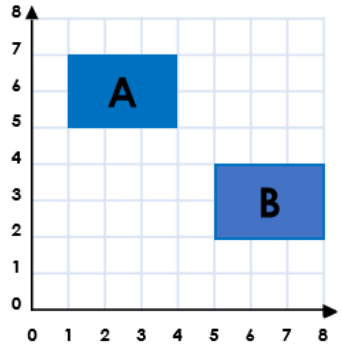
Try your best – it is all we can ask for! 😊

This video may help if you are stuck at any point:
https://www.youtube.com/watch?v=8Dtz5fBe7_Q

Fluency

Key Vocabulary: Coordinates, quadrant, x axis, y axis, translate, left, right, up, down.	Your answer
1. Shape A has been translated to the position of shape B. A has translated ___ units to the _____ and ___ units _____. 	
2. The trapezium has been translated 4 units right and 2 units up. Write the shape's original coordinates. Use the grid to help you. 	

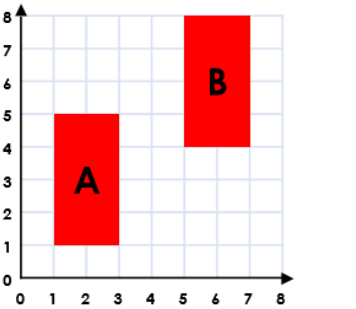
3. A shape is translated from position A to position B. Complete the sentence:



The shape has moved ☐ squares to the right and ☐ squares down.

VF

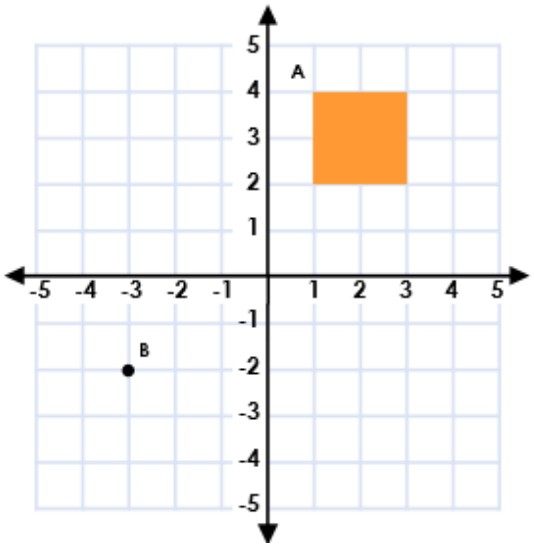
4. A shape is translated from position A to position B. Complete the sentence:



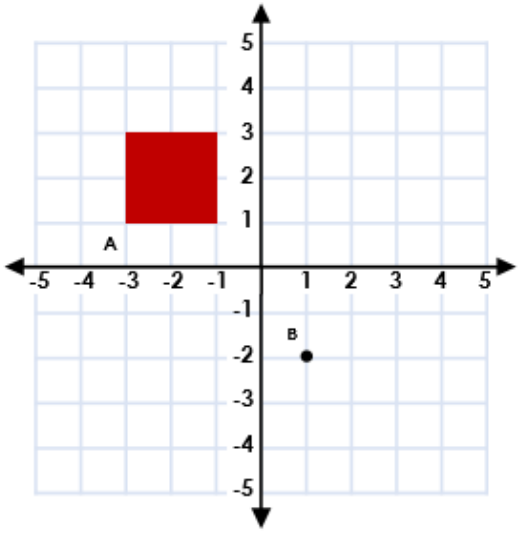
The shape has moved ☐ squares to the right and ☐ squares up.

VF

5. This shape is translated so that point A moves to point B. Write down the coordinates of the shape in its new position.



6. This shape is translated so that point A moves to point B. Write down the coordinates of the shape in its new position.

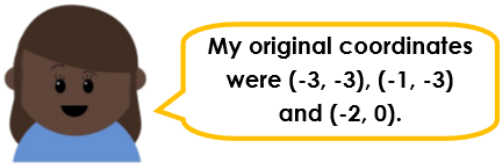


Reasoning and Problem Solving

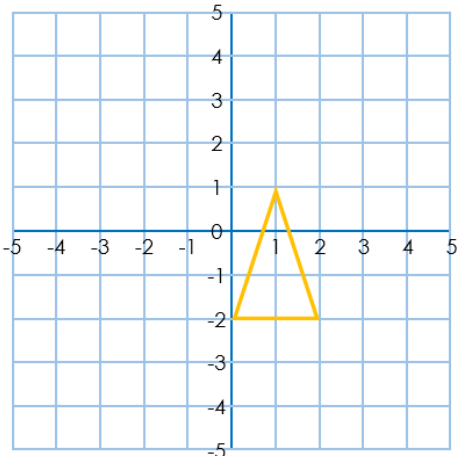
	Your answer

REASONING 1

Anita translated her shape 3 units left and 1 unit down.



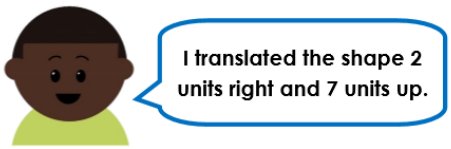
Is she correct? Prove it!



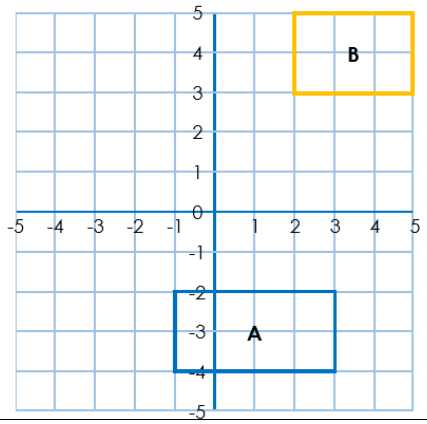
2.

REASONING 2

Caleb translated shape A to the position of shape B.



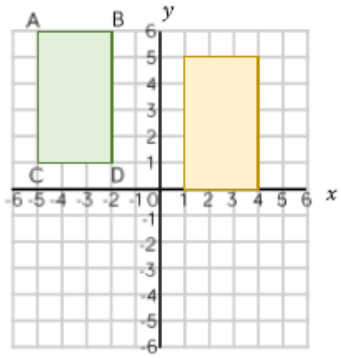
Has he done this correctly? Convince me.



3.

True or False?

Dexter has translated the rectangle ABCD 6 units down and 1 unit to the right to get to the yellow rectangle.

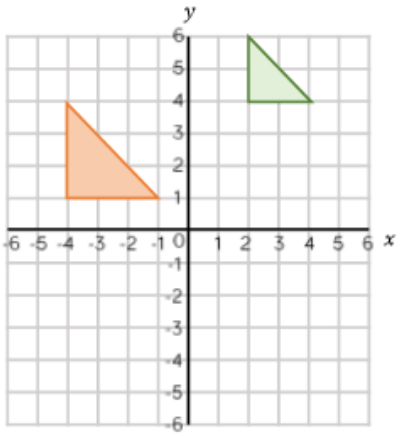


Explain your reasoning.

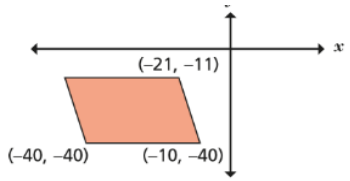
4.

Spot the Mistake.

The green triangle has been translated 6 units to the left and 3 units down.



Extension



This parallelogram has been translated 50 left and 25 down.

What were the coordinates of **all four** vertices before it was translated?