

2nd JUNE 2020

MATHS

POSITION AND DIRECTION

This week you will identifying, describing and representing the position of a shape following a reflection or transition.

Translation, Translation

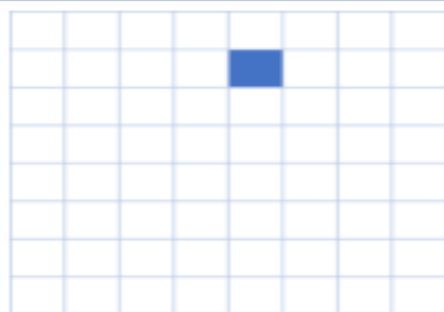
I can translate a shape

S2S: You will need to remember what the word Translation means

Translation – A translation occurs when a shape moves vertically or horizontally but not in any other way.

Attention should be drawn to the fact that the shape itself does not change size nor orientation when translated.

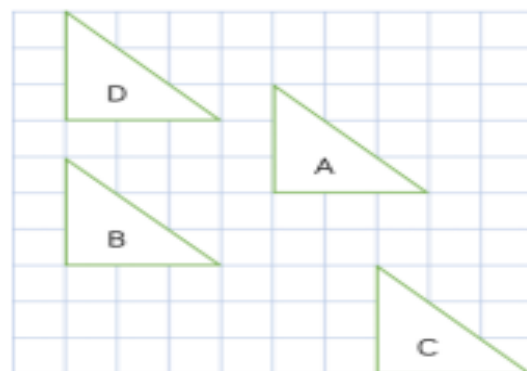
Varied Fluency



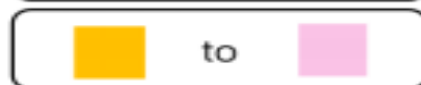
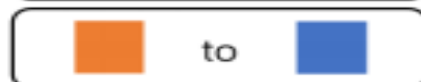
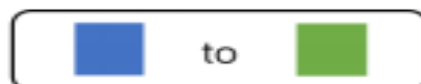
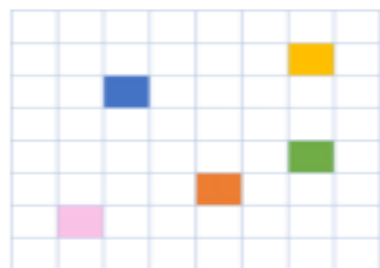
A square is translated two squares to the right and three down.
Draw the new position of this square.

Describe the translation of shape A to shape B, C and then D. Use the stem sentence to help you.

Shape A has been translated _____ left/right and _____ up/down.



Match the translations.



4 right, 2 down

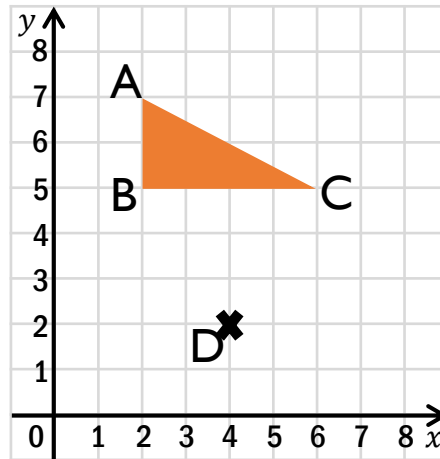
2 left, 3 up

5 left, 5 down

Now answer questions 1 - 5

This triangle has moved vertically and horizontally

(1)



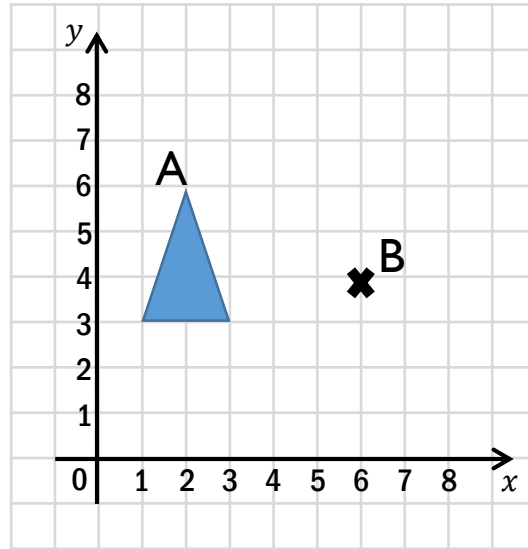
Triangle ABC is translated so that point B translates to point D

It won't fit on this grid!



Do you agree with Amir?
Explain your thinking.

(2)



A triangle is drawn on the grid.

It is translated so that point A translates to point B.

What would be the coordinates of the other vertices of the translated triangle?

(3)

These three coordinates have all been translated in the same way.

$$(_, _) \longrightarrow (3, 1)$$

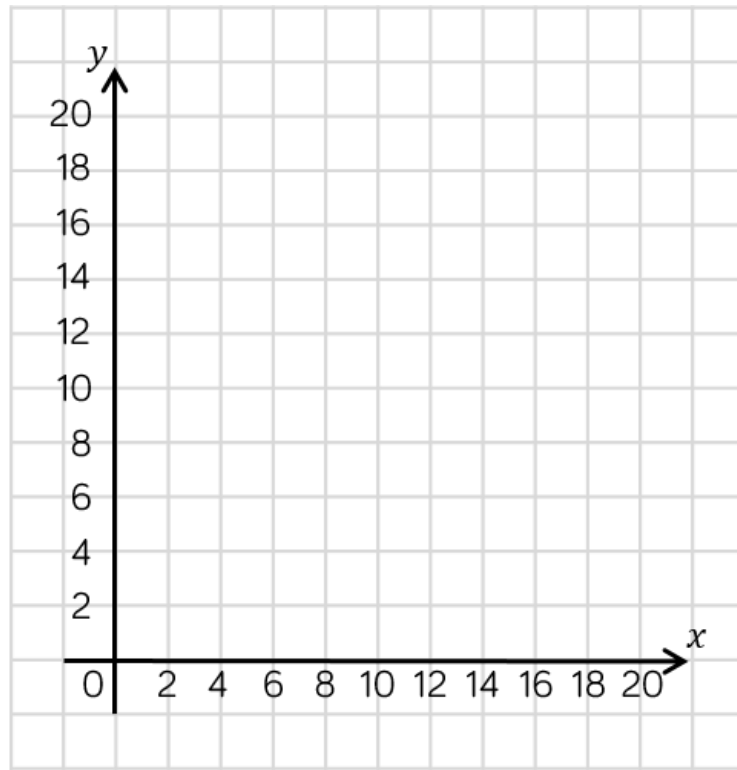
$$(_, 5) \longrightarrow (4, 3)$$

$$(4, _) \longrightarrow (6, 1)$$

Can you work out the missing coordinates?

Describe the translation.

(4)



A rectangle is translated two to the left and 4 up.

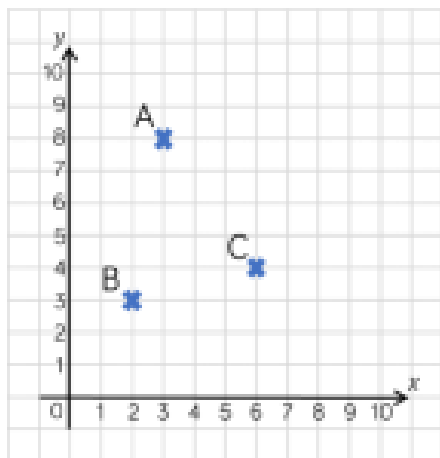
Three of the coordinates of the translated rectangle are: $(6, 8)$ $(10, 14)$ and $(10, 8)$.

What are the coordinates of the original rectangle?

(5)

Varied Fluency

- Translate each coordinate 2 down, 1 right. Record the coordinates of its new position.



	Before translation	After translation
A	(3, 8)	
B		
C		
