Wednesday 29th

Transformations

Translation

Warm up

- TTRockstars

Please complete 5 levels in the garage then play at least 3 studio sessions to check your response time.

Task 1

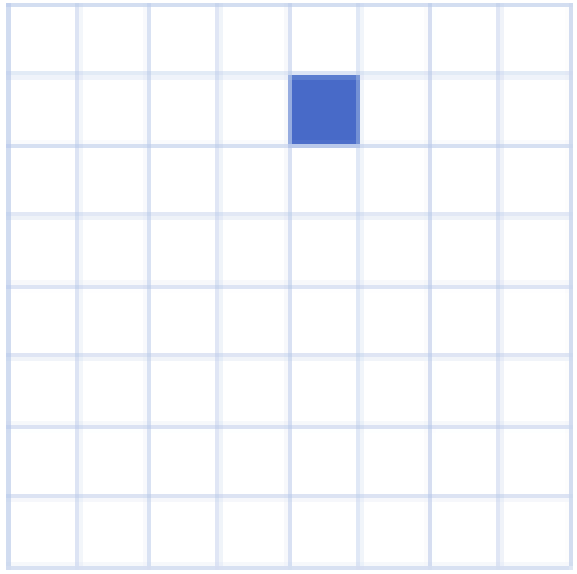
Watch the video clip again about the three different types of transformation.

Today focus on translation.

https://www.bbc.co.uk/bitesize/topics/zs7mn39/articles/zj8ccqt

Explain in your own words what translation is (I always think of sliding on ice)

Task 2 Q1

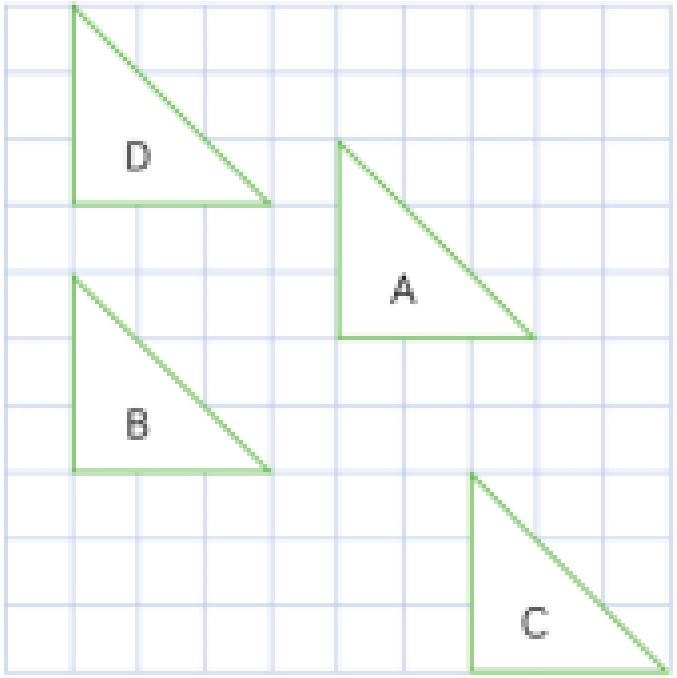


A square is translated two squares
to the right and three down.
Draw the new position of this square.

Task 2 Q2

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.

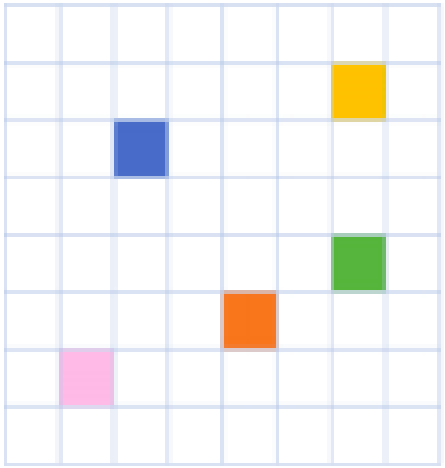


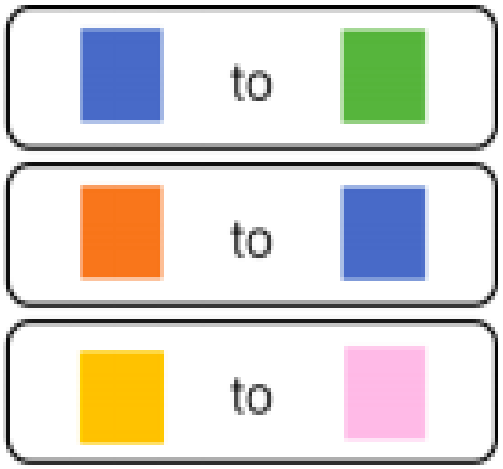
Task 2 Q2 - answers

- (A – B) Shape A has been translated 4 squares left and 2 squares down.
- (A to C) Shape A has been translated 2 squares right and 5 squares down.
- (A to D) Shape A has been translated 4 squares left and 2 squares up.

Task 2 Q3

Match the translations.





A

B

C

4 right, 2 down

2 left, 3 up

5 left, 5 down

1

2

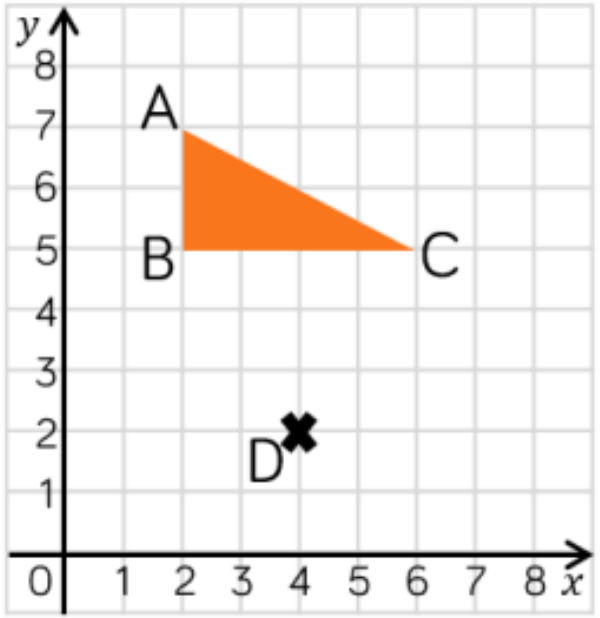
3

A matches to number ___
B matches to number ___
C matches to number ___

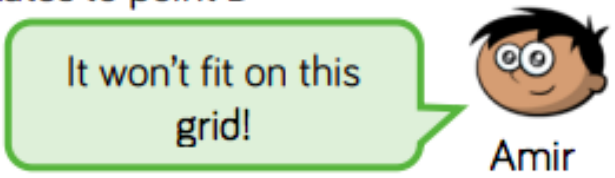
Task 2 Q3 - answers

- A matches to number 1.
- B matches to number 2.
- C matches to number 3.

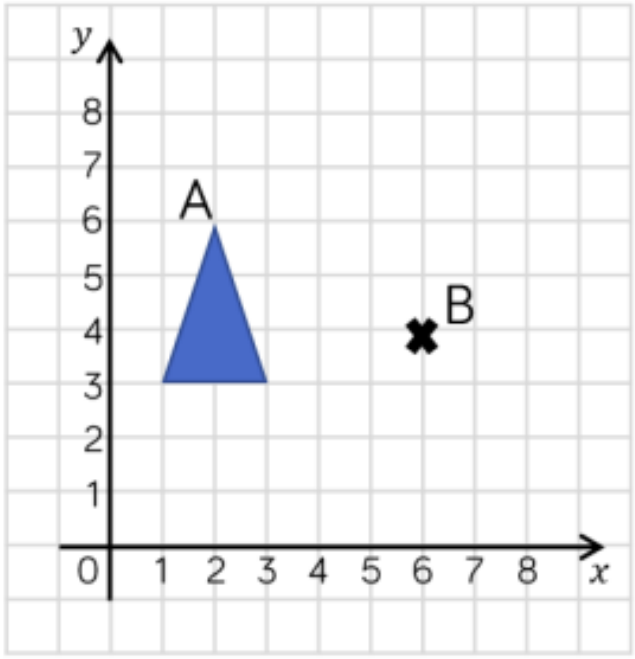
Task 3 – problem solving



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



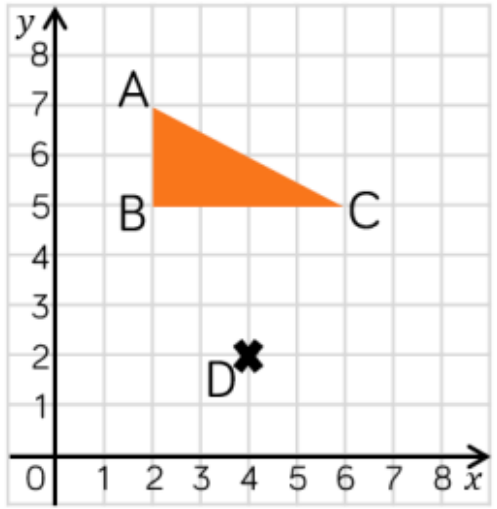
Do you agree with Amir?
Explain your thinking.



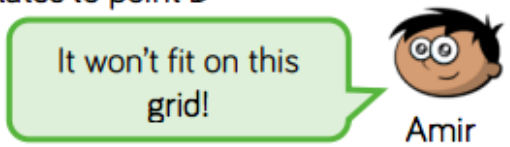
A triangle is drawn on the grid.
It is translated so that point A translates to point B.

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

Task 3 – problem solving answers

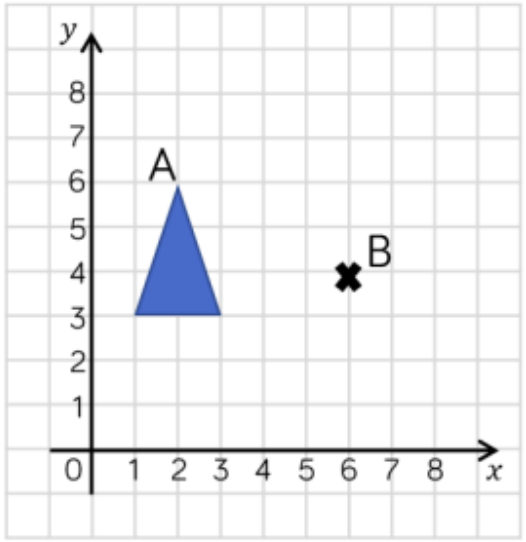


Triangle ABC is translated so that point B translates to point D



Do you agree with Amir?
Explain your thinking.

Amir is incorrect, the shape is translated two to the right and three down. It will fit on this grid.



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?

(7, 1)

(5, 1)

Plenary – using and applying your knowledge

Watch the 1 minute video clip at:

https://www.bbc.co.uk/bitesize/topics/z3pfb9q/articles/zqrkpbk

Can you write a script which could be read as a voice-over, over the top of the video, to describe the transformations of reflection and translation?

Challenge – can you use the other transformation video or your own research to include rotation in your script?

You could write the script and send it to us– or if you have the tech you could record a short video on a phone or tablet of you doing the ‘voice-over’ for the BBC bitesize clip. We look forward to seeing what you can do!

Have fun!