

**DR BAKER'S YEAR 5 MATHS**  
**THURSDAY 21<sup>ST</sup> MAY**



# WELCOME

Good Morning. Time for Times Tables  
Thursday. If you easily got them all correct  
on Tuesday you might like to go on  
Rockstars for 10 minutes instead.

$7 \times 1 = \underline{\quad}$

$3 \times 10 = \underline{\quad}$

$3 \times 9 = \underline{\quad}$

$3 \times 11 = \underline{\quad}$

$6 \times 9 = \underline{\quad}$

$8 \times 5 = \underline{\quad}$

$2 \times 12 = \underline{\quad}$

$12 \times 10 = \underline{\quad}$

$11 \times 8 = \underline{\quad}$

$6 \times 5 = \underline{\quad}$

$12 \times 12 = \underline{\quad}$

$3 \times 8 = \underline{\quad}$

$9 \times 8 = \underline{\quad}$

$8 \times 9 = \underline{\quad}$

$12 \times 9 = \underline{\quad}$

$8 \times 8 = \underline{\quad}$

$6 \times 11 = \underline{\quad}$

$7 \times 9 = \underline{\quad}$

$4 \times 7 = \underline{\quad}$

$7 \times 8 = \underline{\quad}$

# TASKS FOR TODAY

L.O. To translate shapes.

(Please read this whole slide before watching any clips)

Today we are going to translate our shapes. This does not mean we are going to say them in another language, it means we are going to move them in a specific way! Again it is over to Mr Barton at Oak National Academy for an explanation: [HTTPS://WWW.THENATIONAL.ACADEMY/YEAR-5/MATHS/DESCRIBING-TRANSLATIONS-YEAR-5-WK1-2#SLIDE-3](https://www.thenationalacademy/year-5/maths/describing-translations-year-5-wk1-2#slide-3)

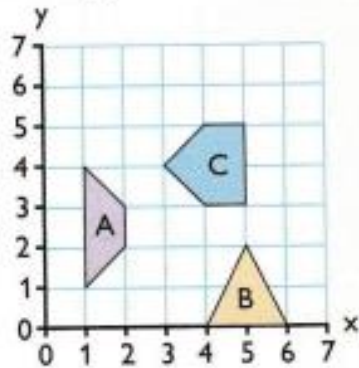
(**Note** there is a lesson before this one – I think most of you will follow this one without it but it is here if you want to watch that one too: [HTTPS://WWW.THENATIONAL.ACADEMY/YEAR-5/MATHS/AN-INTRODUCTION-TO-TRANSLATION-YEAR-5-WK1-1#SLIDE-3](https://www.thenationalacademy/year-5/maths/an-introduction-to-translation-year-5-wk1-1#slide-3) )

Once you have watched the video/s have a go at the questions on the slides – or you could have a go before if you think you already know how to translate shapes). There are three levels as normal. You will need to draw grids in your book today. Get someone to do this for you if you find it tricky.

# SET A

## Set A

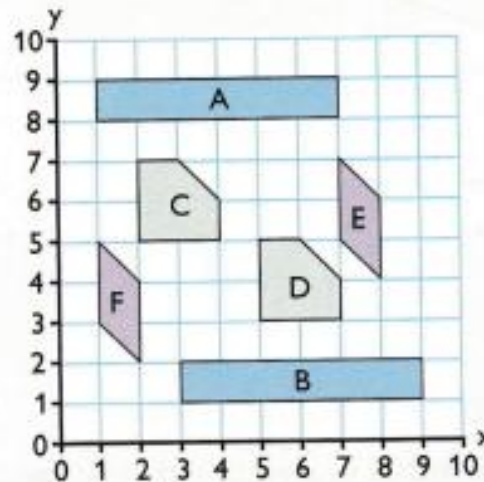
Look at the diagram below.



On a blank coordinate grid, draw the new position of each shape:

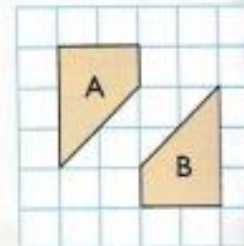
- 1 translate Shape A 3 squares right and 1 square down.
- 2 translate Shape B 2 squares left and 5 squares up.
- 3 translate Shape C 2 squares left and 1 square down.
- 4 The centre of a square is at coordinates (2, 5).  
The square is translated so that its centre is at (3, 6).  
Describe the translation.

Look at the diagram below.



Describe the translation:

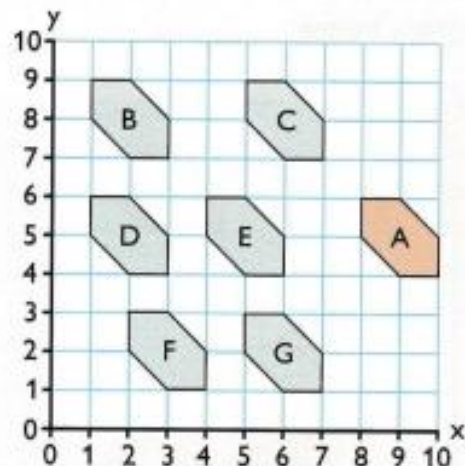
- 5 from A to B.
- 6 from C to D.
- 7 from E to F.
- 8 Look at the diagram on the right.  
Is Shape B a correct translation of Shape A?  
Explain your answer.



# SET B

## Set B

Look at the diagram below.



Shape A is translated to a new position on the grid.

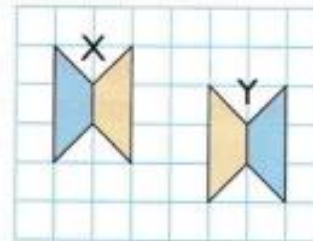
Which letter shows the new position of Shape A if it was translated:

- 1 3 squares left and 3 squares up.
- 2 7 squares left and 3 squares up.
- 3 left and down by the same number of squares.

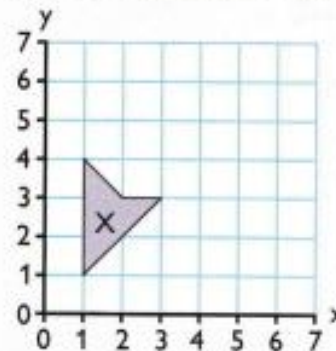
- 4 Look at the diagram on the right.

Is Shape Y a correct translation of Shape X?

Explain your answer.



- 5 Look at the diagram below.



The diagram shows the new position of Shape X after it was translated 4 squares left and 2 squares down.

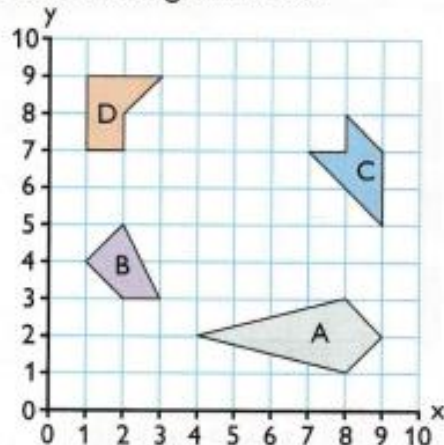
On a blank coordinate grid, draw the original position of Shape X.



# SET C

## Set C

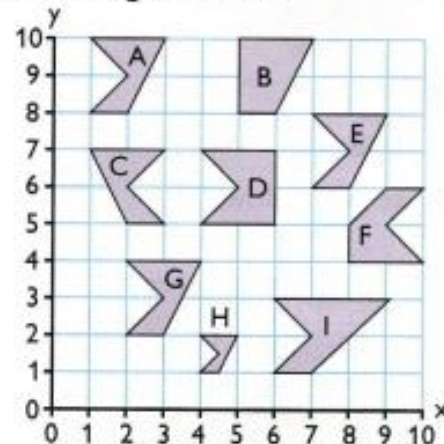
Look at the diagram below.



On a blank coordinate grid, draw the new position of each shape:

- 1 translate Shape A 1 square right and 6 squares up.
- 2 translate Shape B 7 squares right and 3 squares down.
- 3 translate Shape C 5 squares left and 2 squares down.
- 4 translate Shape D 3 squares right and 1 square up.

Look at the diagram below.



- 5 Which shapes are a translation of Shape A?
- 6 Describe all the translations of Shape A that you find.

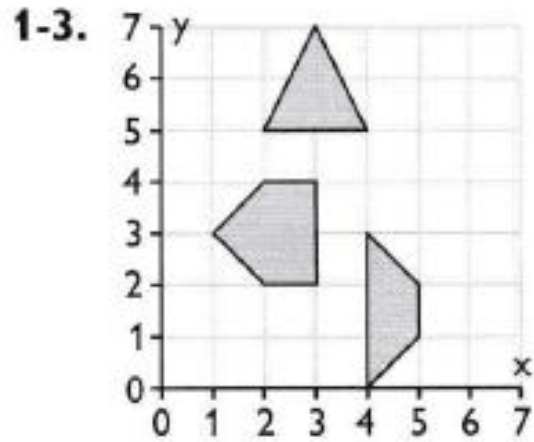
A triangle has a vertex Z with coordinates (3, 1).

The triangle is translated 3 squares right and 8 squares up.

- 7 What are the new coordinates of vertex Z?
- 8 Describe a translation from the new coordinates to the original coordinates of vertex Z.

# SET A ANSWERS

## Set A



4. The square has been translated 1 square right and 1 square up.

5. Shape A has been translated 2 squares right and 7 squares down.
6. Shape C has been translated 3 squares right and 2 squares down.
7. Shape E has been translated 6 squares left and 2 squares down.
8. No. Shape A has been rotated and this shouldn't happen when a shape is translated.

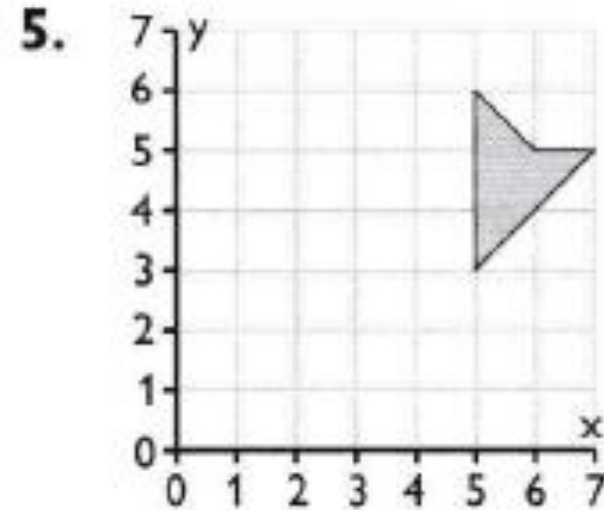


# SET B ANSWERS



## Set B

1. C
2. B
3. G
4. No. Shape X has been rotated and this shouldn't happen when a shape is translated.

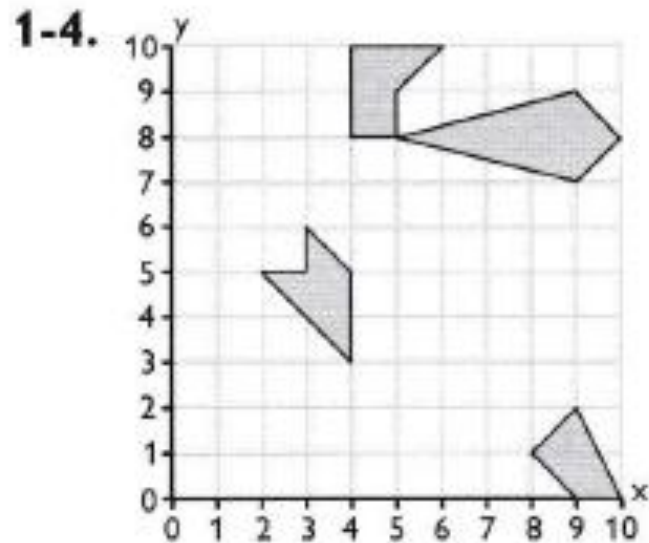




# SET C ANSWERS



## Set C



5. E and G
6. E: Shape A has been translated 6 squares right and 2 squares down.  
G: Shape A has been translated 1 square right and 6 squares down.
7. (6, 9)
8. The triangle has been translated 3 squares left and 8 squares down.

# REMEMBER:

- **Talk to someone on your network hand if you are worried about something.**
- **If nobody is listening to your worries or there is nobody to talk to, you can google Childline or call them on 08001111. Adults at Childline are used to talking to children with worries and can help you.**
- **If you feel unsafe at home or are worried that a friend is not safe, call Mrs Patchett on 07787261064.**