Week 9, Day 4 **Translations**

Each day covers one maths topic. It should take you about 1 hour or just a little more.

If possible, watch the **PowerPoint presentation** 1. with a teacher or another grown-up.

OR start by carefully reading through the Learning Reminders.

- Tackle the questions on the **Practice Sheet**. 2. There might be a choice of either Mild (easier) or Hot (harder)! Check the answers.
- Finding it tricky? That's OK... have a go with a 3. grown-up at A Bit Stuck?

Think you've cracked it? Whizzed through the Practice Sheets? 4. Have a go at the Investigation...









Learning Reminders



Learning Reminders



Learning Reminders







Practice Sheet Answers

Translated quadrilaterals

- 1. Shape A moves 11 squares along to the right and 5 squares down.
- 2. Shape C moves 12 squares along to the right and 4 squares down.
- 3. Shape E moves 5 squares along to the right and 5 squares up.
- 4. Shape G moves 6 squares along to the right and 4 squares up.
- 5. Shape J moves 8 squares along to the right and 3 squares up. Which pair of shapes have a translation of 11 horizontally? A and B Which pair of shapes have a translation of 3 vertically? J and K Which pair of shapes have the greatest translation horizontally? C and D

Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton



- Place the rectangle in the starting position on the co-ordinate grid.
- Write the co-ordinates of the four vertices.
- Move the rectangle 3 squares to the right. Write the new co-ordinates. The x co-ordinates will have changed but not the y coordinates.
- Now move the rectangle back to the start.
- Move it down 3 squares. Write the new co-ordinates. How have they changed?
- Experiment moving the rectangle up, down, left or right, seeing what happens.

S-t-r-e-t-c-h:

Try moving the rectangle across or down to other quadrants.

Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton

© Hamilton Trust

