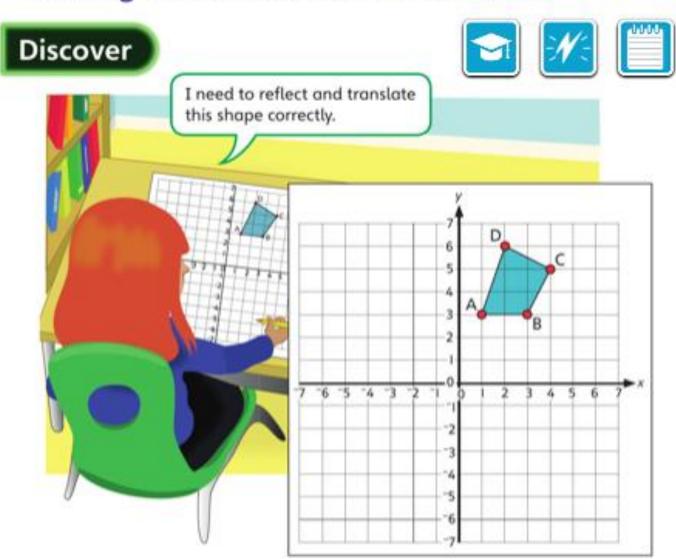
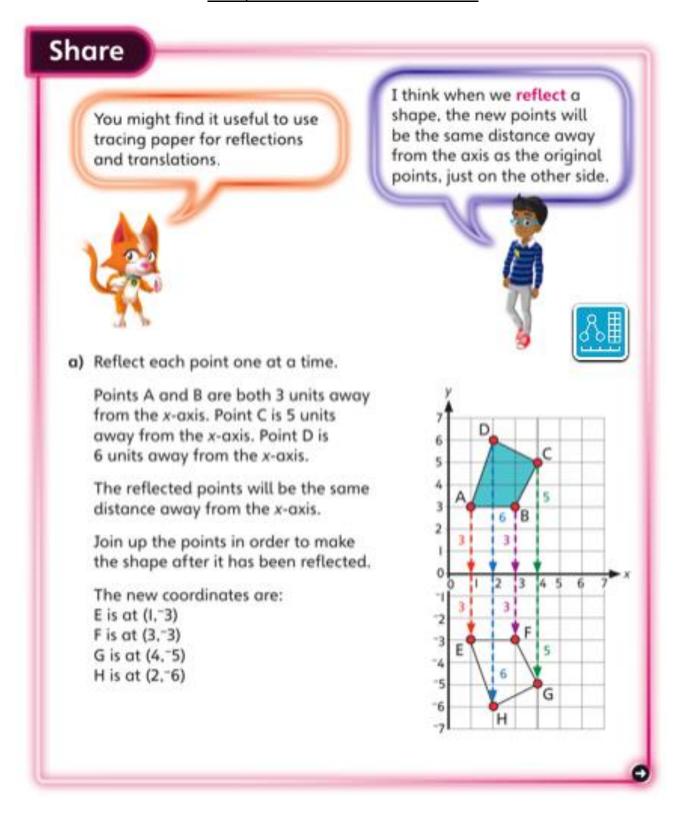
Plotting translations and reflections



- a) Where would Olivia draw the shape if it was reflected in the x-axis?
 - b) Where would Olivia draw the shape if her original shape was translated 4 left and 5 down?

First, let's look at the reflection

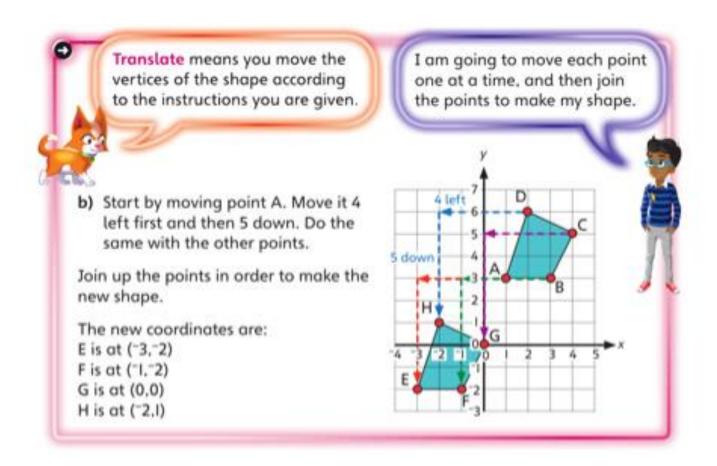


This is just like yesterday's work, reflecting shapes.

It's important to do every point one at a time and then join them up, rather than trying to look at the shape and draw it in the new place.

This will help you to be accurate every time.

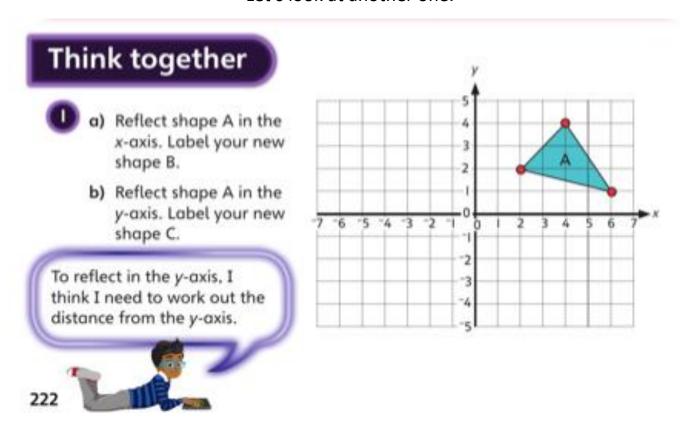
Now let's look at the translation



Translating is *sliding* the shape across the grid but not changing it in any other way. Again, it's important to do EVERY point, one at a time, so that you are accurate.

Then join up your points.

Let's look at another one:



Remember to count each point in turn. How far from the x axis is each point? The reflected points will be the **same** distance from the axis.

Draw each of the three points (or look at where they would be on your computer screen). Once you have all three points, you can join them up. This is shape B.

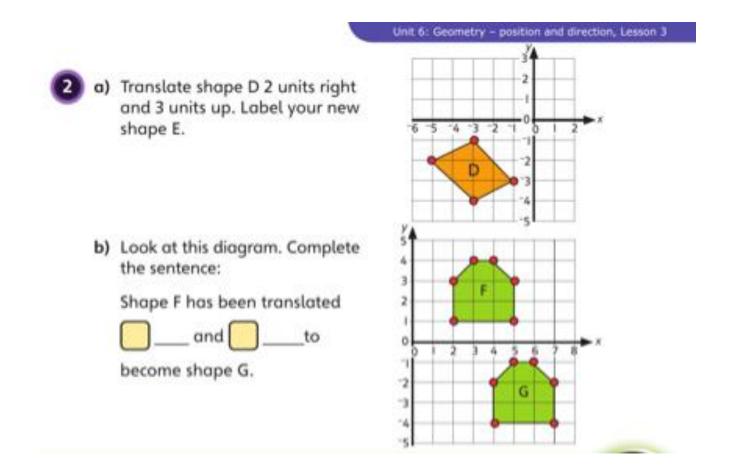
Now look at reflecting in the y axis. Do the same again: draw each of the three points (or look at where they would be on your computer screen). Once you have all three points, you can join them up. This is shape C.

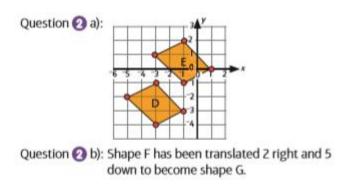
ANSWERS

Question 1 a): The reflected image of shape A has coordinates (2, -2), (4, -4) and (6, -1).

Question 1 b): The reflected image of shape A has coordinates (-2,2), (-4,4) and (-6,1).

Here's another couple of practice questions:





NOW, have a go at pages 160 – 163 in your Power Maths book A.

I'll put the answers in a separate file, so you can check once you're finished (don't cheat!)