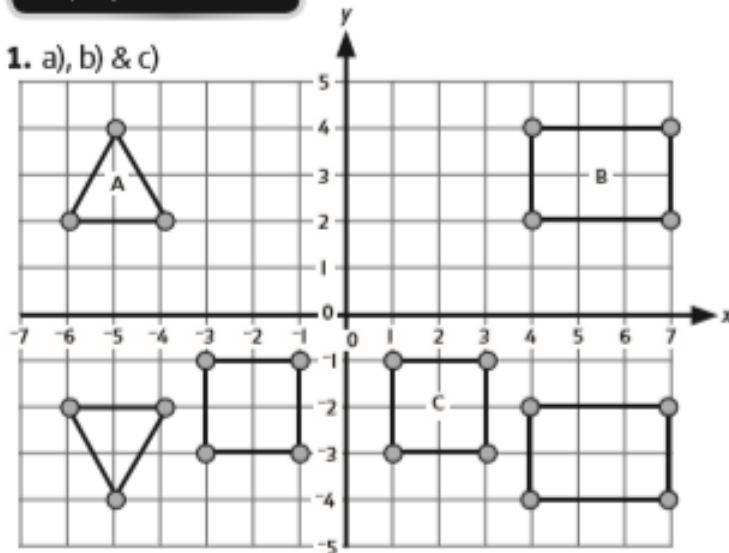


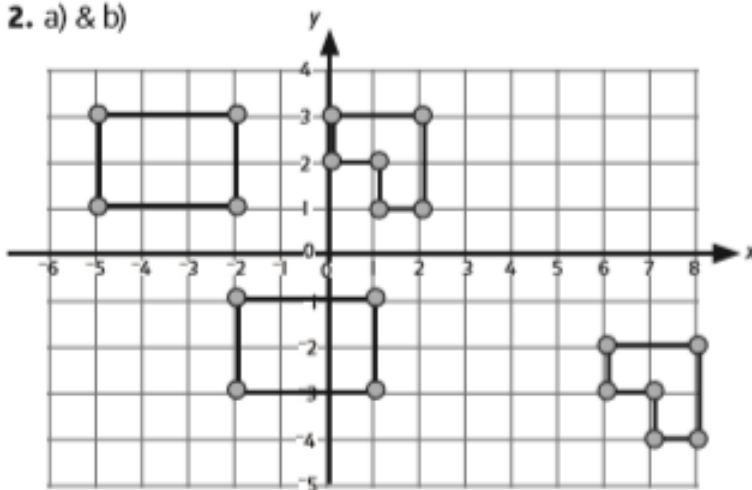
## Lesson 3: Plotting translations and reflections

→ pages 161–163

1. a), b) & c)



2. a) & b)

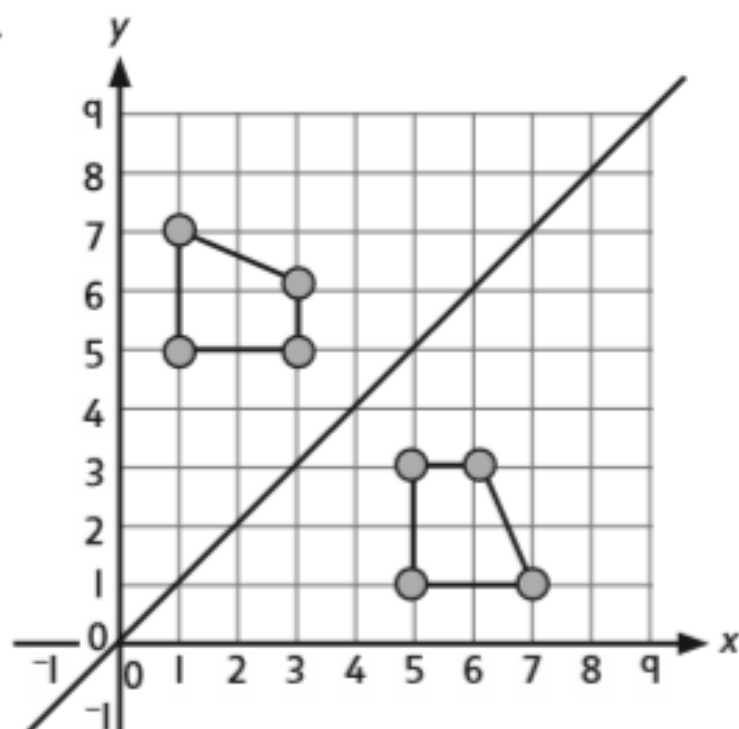


3. Shape A has been reflected in the  $x$ -axis to make shape B.

Shape C has been reflected in the  $y$ -axis to make shape D.

Shape E has been translated 6 units right and 3 units up to make shape F.

4.



5.  $(-1,5)$ ,  $(-1,2)$ ,  $(-5,2)$ ,  $(-5,5)$

6. a) The coordinates will be:  $(11,2)$ ,  $(9,3)$ ,  $(7,3)$ ,  $(6,2)$  and  $(8,1)$ .

b) The coordinates will be:  $(5,2)$ ,  $(3,3)$ ,  $(1,3)$ ,  $(0,2)$  and  $(2,1)$ .

Explanations will vary, for example: I do not get the same answers because the order you do reflections and translations matters.

## Reflect

Yes, the shape is identical as you have not changed the dimensions of the shape – you have just changed its position (and possibly orientation).