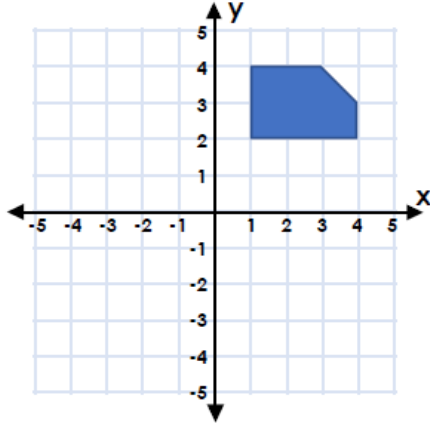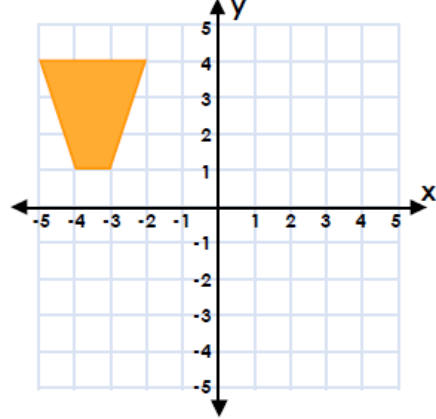**1** True or false? If this shape is reflected in the y axis, the new coordinates will be (1, -2), (1, -4), (3, -4), (4, -2), (4, -3).
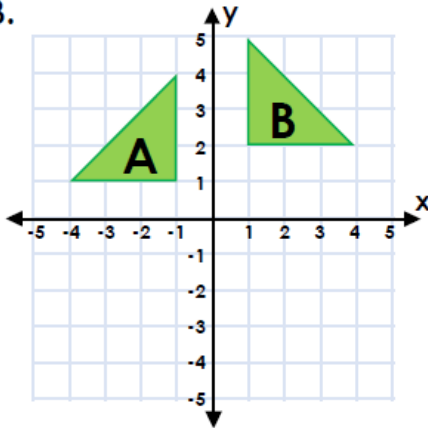

2 True or false? If this shape is reflected in the x axis, the new coordinates will be (-2, -4), (-3, -1), (-4, -1), (-5, -4).
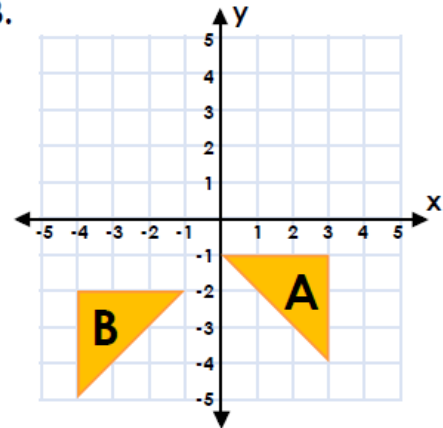

VF

3 Describe one reflection and one translation needed to move shape A to shape B.
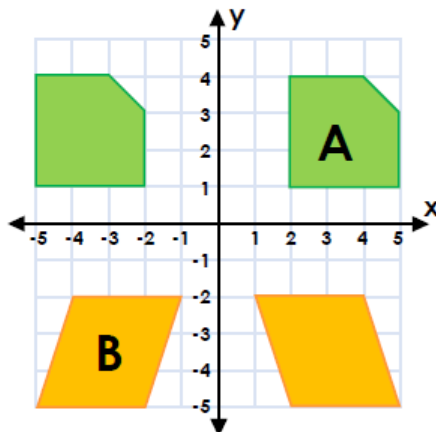

Is there more than one possibility?

4 Describe one reflection and one translation needed to move shape A to shape B.
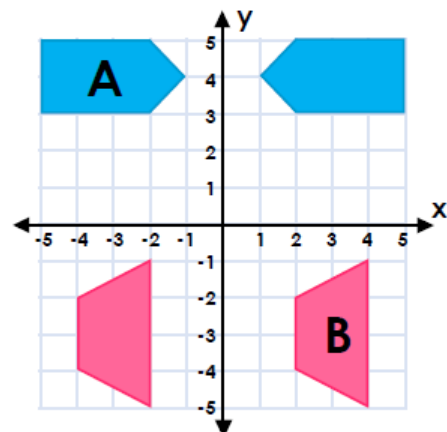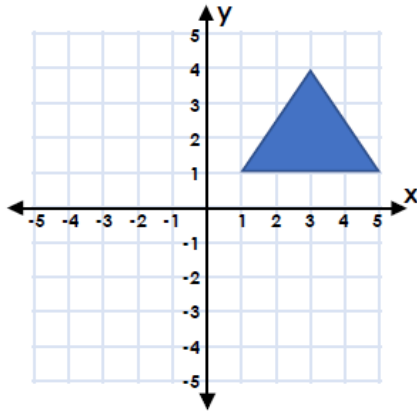

Is there more than one possibility?

5 Shapes A and B are reflected in the y axis. Are the reflections correct? Explain why.

6 . Shapes A and B are reflected in the y axis. Are the reflections correct? Explain why.
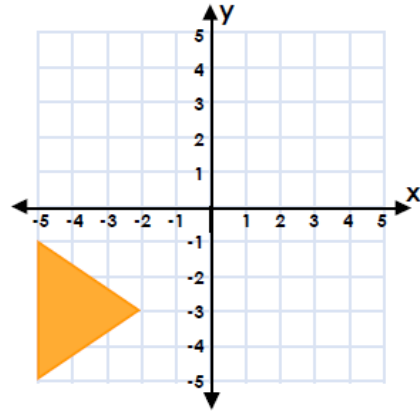
7 Reflect the shape in the x axis and complete the coordinates of the new shape.
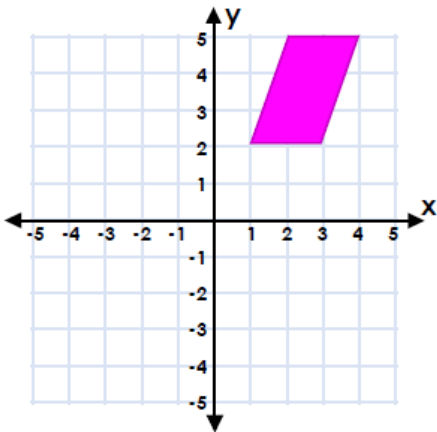

(1,-1) ☐ ☐

8 Reflect the shape in the y axis and complete the coordinates of the new shape.
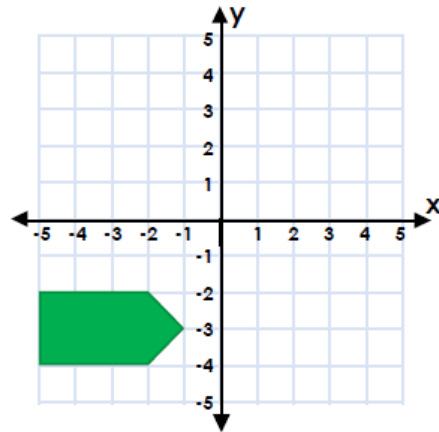

(2,-3) ☐ ☐

9 Reflect the shape in the x axis and complete the coordinates of the new shape.

(1,-2) ☐ ☐ ☐

10 Reflect the shape in the y axis and complete the coordinates of the new shape.
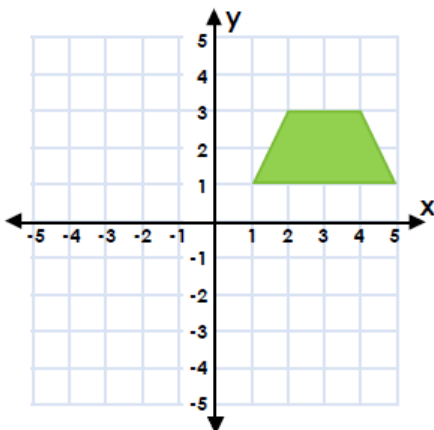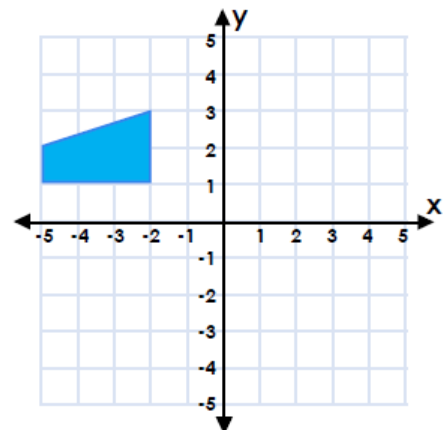

(1,-3) ☐ ☐ ☐ ☐

VF

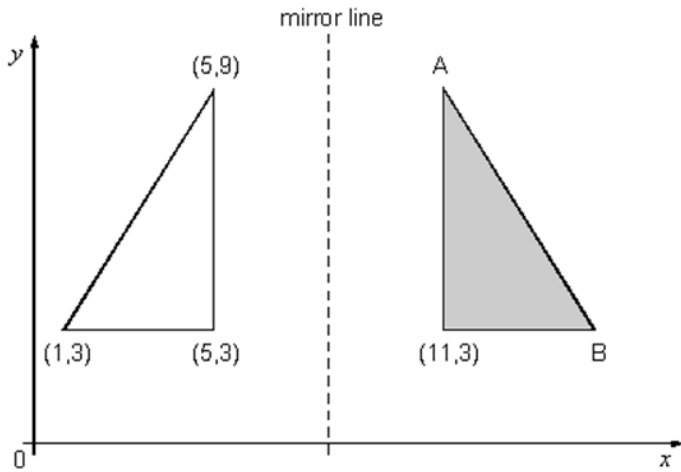**11** Reflect the shape in the y axis. Then reflect both shapes in the x axis.

12 Reflect the shape in the y axis. Then reflect both shapes in the x axis.

13

| The shaded triangle is a reflection of the white triangle in the mirror line.

mirror line

(5,9)   A

(1,3)   (5,3)   (11,3)   B

14   Write the **co-ordinates** of point **A** and point **B**.

Here is a square with a design on it.

The square is reflected in the mirror line.

Draw the missing triangle and dots on the
reflected square.

mirror line