

Now answer the following questions and give reasons for your answers


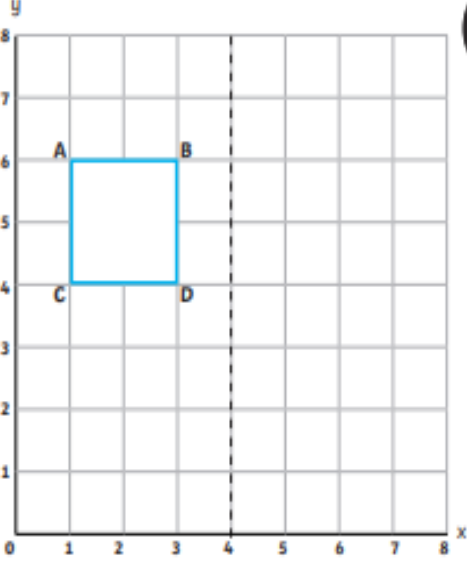
1) Jane wants to reflect the blue square in the mirror line. Draw the reflected shape, using a pencil and ruler.

2) a) What are the coordinates of the vertices of the original blue square?

A (,) B (,) C (,) D (,)

b) What are the coordinates of the vertices of the reflected square?

(,) (,) (,) (,)


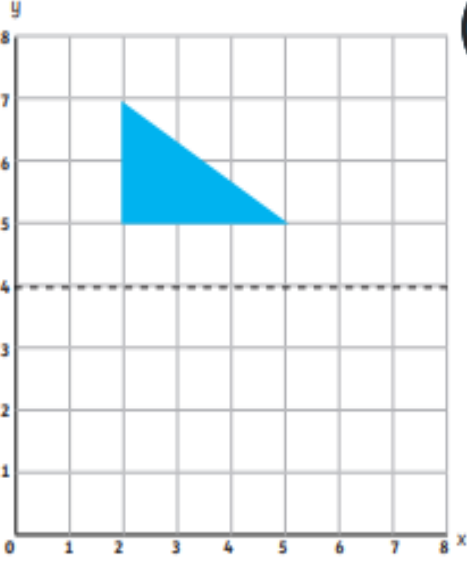
1) Brigitte and Taylor are reflecting the triangle in the mirror line. Taylor says, 'I need a mirror to do this.' Brigitte says, 'I have a different method that doesn't need a mirror.' What could Brigitte's method be?

2) a) Choose a vertex of the original triangle and write down the coordinates. Now, identify the same vertex in the reflected shape and write down the coordinates. What do you notice?

b) Circle the correct answer in these sentences.

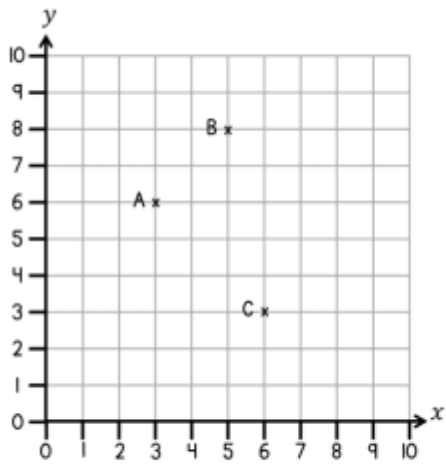
When reflecting a shape in a mirror line that passes through the x-axis, the x / y coordinate will stay the same and the x / y coordinate will change.

When reflecting a shape in a mirror line that passes through the y-axis, the x / y coordinate stays the same and the x / y coordinate changes.

3)

Write down the coordinates of points A, B and C.



$$A = (\quad , \quad)$$

$$B = (\quad , \quad)$$

$$C = (\quad , \quad)$$

Plot the final point to make a rectangle.

Name it D

What are the coordinates of the D? How do you know?