

Reflections

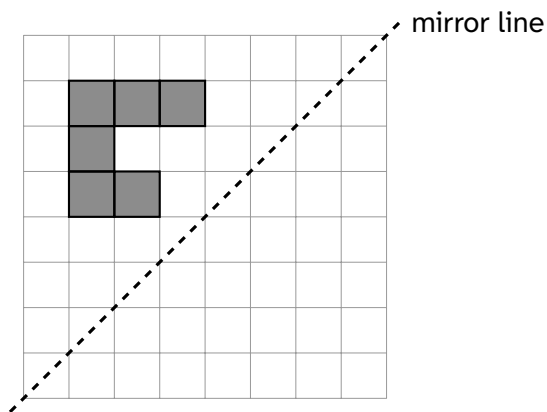
For Pearson Edexcel GCSE Mathematics (1MA1) • Foundation tier

Name _____

Total marks: **20**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

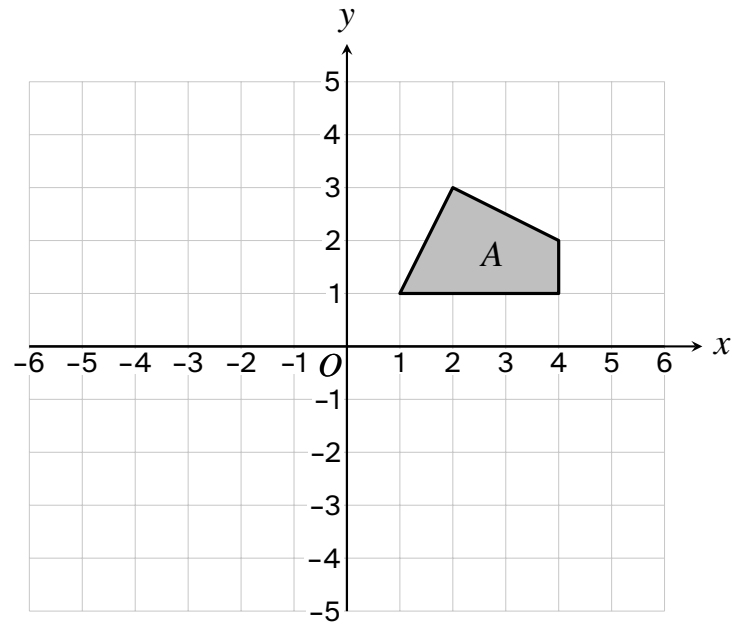
- 1** On the grid, reflect the shaded shape in the mirror line.



(2)

(Total for Question 1 is 2 marks)

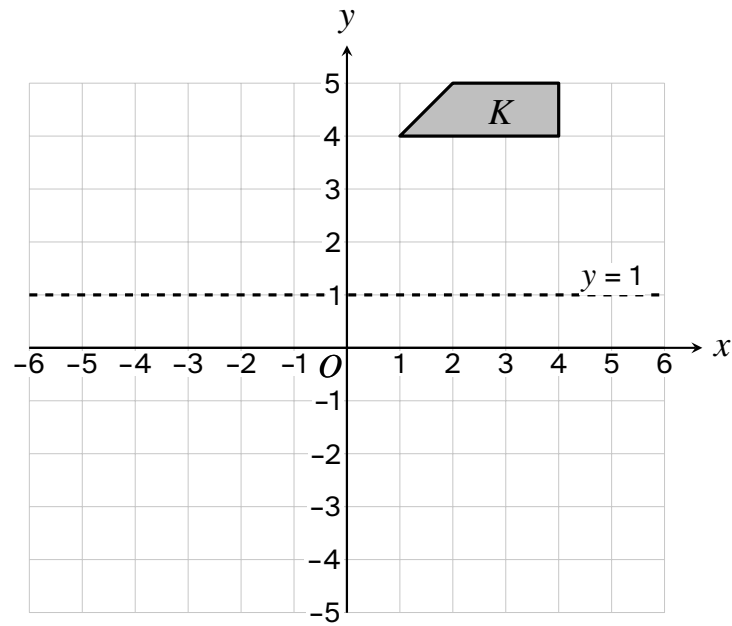
- 2 On the grid, reflect shape A in the x -axis.



(2)

(Total for Question 2 is 2 marks)

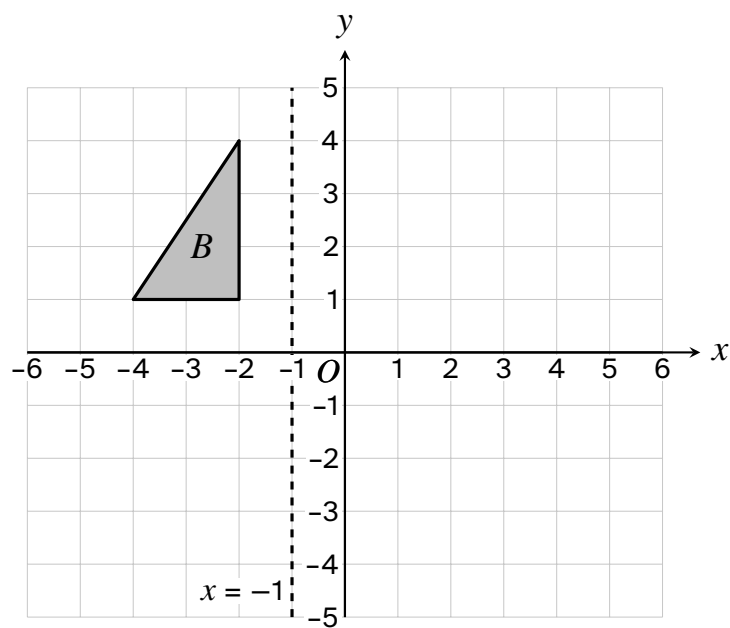
- 3 On the grid, reflect shape K in the line $y = 1$



(2)

(Total for Question 3 is 2 marks)

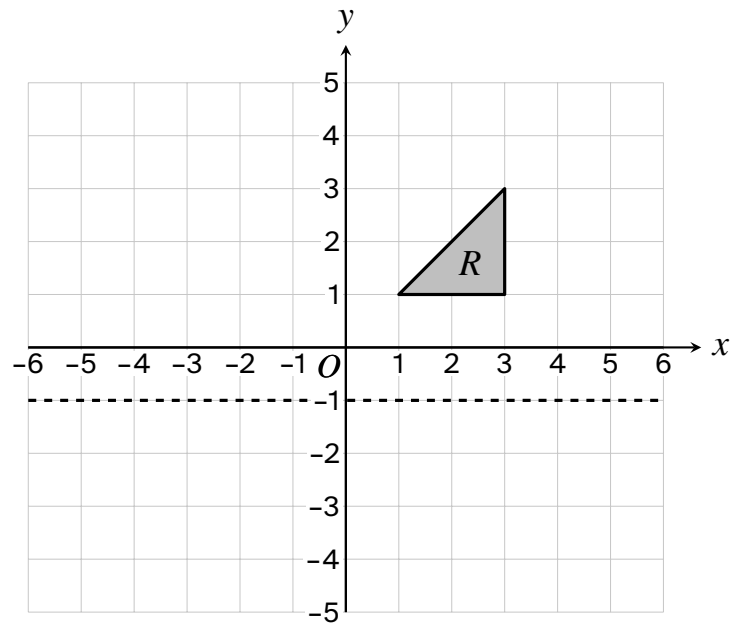
- 4 On the grid, reflect triangle B in the line $x = -1$



(2)

(Total for Question 4 is 2 marks)

- 5 (a) On the grid, reflect shape R in the mirror line.



(2)

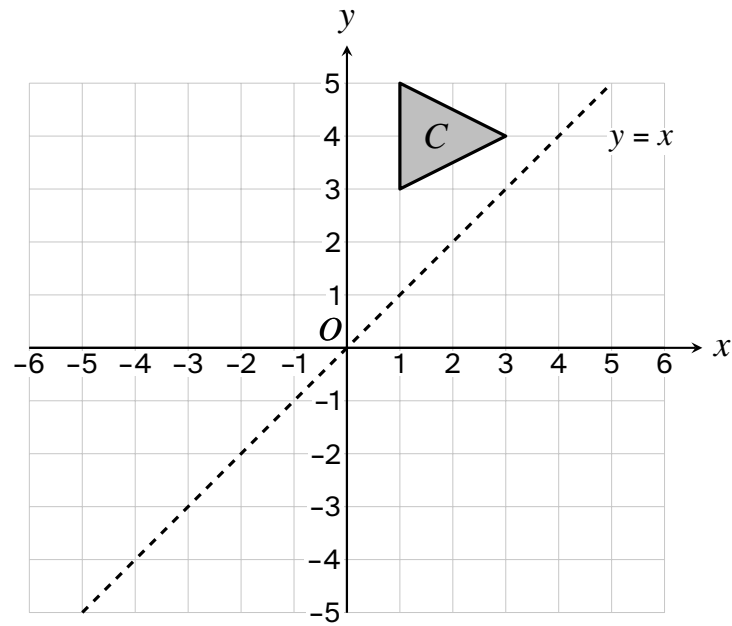
- (b) The vertex (3, 3) of shape R is reflected in the mirror line.
Write down the coordinates of its image.

(..... ,)

(1)

(Total for Question 5 is 3 marks)

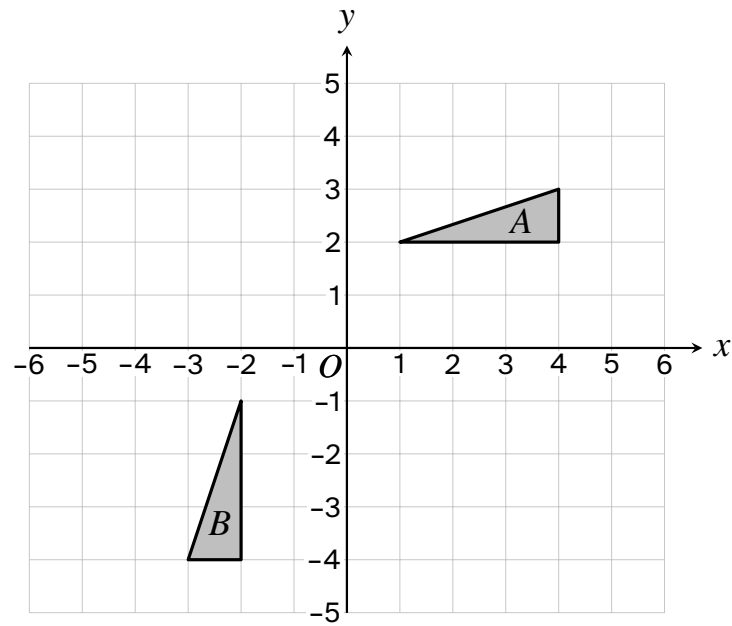
- 6 On the grid, reflect triangle C in the line $y = x$



(2)

(Total for Question 6 is 2 marks)

- 7 Shape A is reflected in a straight line to give shape B .



- (a) Write down the equation of the line of reflection.

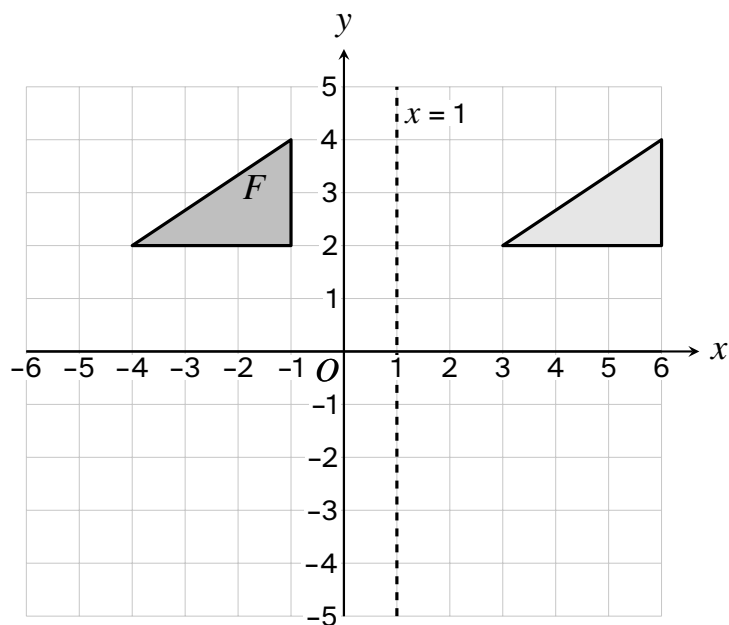
.....
(1)

- (b) Shape A is reflected in the y -axis to give shape C .
Write down the coordinates of the vertex of C that is the image of $(4, 3)$

(..... ,)
(1)

(Total for Question 7 is 2 marks)

- 8 Keira is asked to reflect shape F in the line $x = 1$

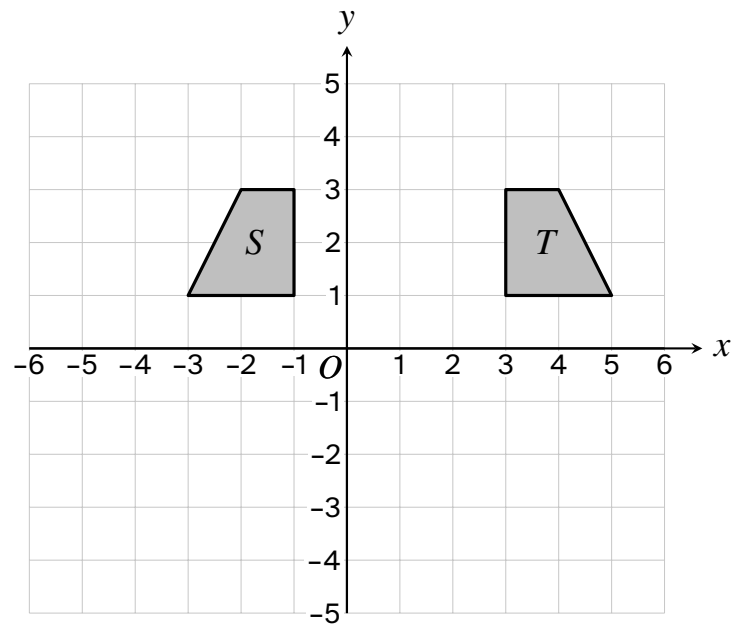


Keira's answer is shown on the grid.
Explain what Keira has done wrong.

(1)

(Total for Question 8 is 1 mark)

- 9 Describe fully the single transformation that maps shape S onto shape T .



(2)

(Total for Question 9 is 2 marks)

- 10** (a) The point P has coordinates $(-2, 5)$
 P is reflected in the line $y = 1$
Write down the coordinates of the image of P .

(..... ,)
(1)

- (b) The point Q is reflected in the line $x = 3$
The image of Q is the point $(7, -4)$
Write down the coordinates of Q .

(..... ,)
(1)

(Total for Question 10 is 2 marks)
