Shapes and Coordinates

Challenge 1

1 **a)** Plot these points on the coordinate grid: (1,7) (1,4) (6,7). They are three vertices of a rectangle.

b) Plot the fourth vertex and use a ruler to complete the rectangle.

c) Write the coordinates of the fourth vertex. _____
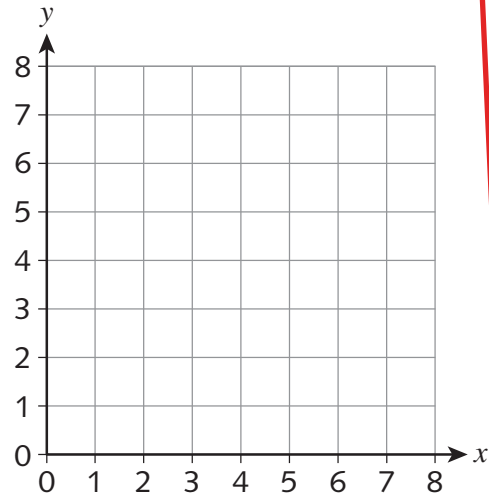
3 marks

2 **a)** Plot these points on the coordinate grid: (7,3) (3,1). They are two vertices of a right-angled triangle.

b) Plot the third vertex and use a ruler to complete the triangle.

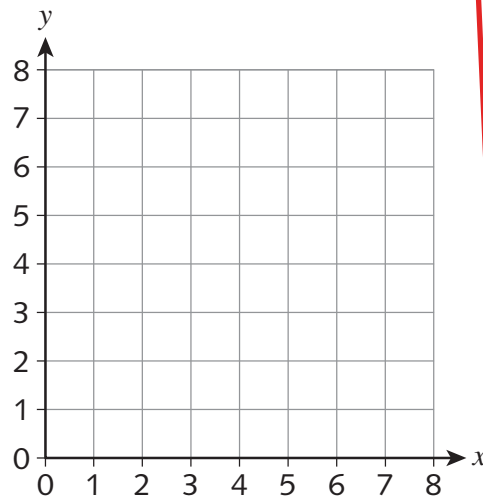**c)** Write the coordinates of the third vertex. _____

3 marks

Marks.......... /6

Challenge 2

1 **a)** Plot these points on the coordinate grid: (3,8) (1,6) (5,6). They are three vertices of a square.

b) Plot the fourth vertex and use a ruler to complete the square.

c) Write the coordinates of the fourth vertex. _____

3 marks

2 **a)** Plot these points on the coordinate grid: (6,6) (4,4) (8,4). They are three vertices of a kite.

b) Plot a possible fourth vertex. Use a ruler to complete the kite.

c) Write possible coordinates of the fourth vertex. _____

3 marks

Marks.......... /6

Shapes and Coordinates

Challenge 3

PS **1** Three vertices of a square are: (10,15) (10,10) (15,15).

Write the coordinates of the fourth vertex. _____

1 mark

PS **2** Matt draws a straight line on a coordinate grid.
He uses these coordinates:
(1,5) (3,6) (5,7) (7,8).
Matt extends the line.

Write the next pair of coordinates in the sequence. _____

1 mark

3 **a)** These coordinates are the end points of a line: (2,2) (8,8).

Write the mid-point of the line. _____

b) These coordinates are the end points of a line: (2,8) (8,2).

Write the mid-point of the line. _____

2 marks

4 Daria says, "If there is a set of coordinates and the first number is always the same, that means the line joining them must be a horizontal line."

Is Daria correct? Explain your answer.

_____

_____

_____

_____

1 mark

Marks.......... /5

Total marks .... /17   How am I doing?   ☺ 😐 😣