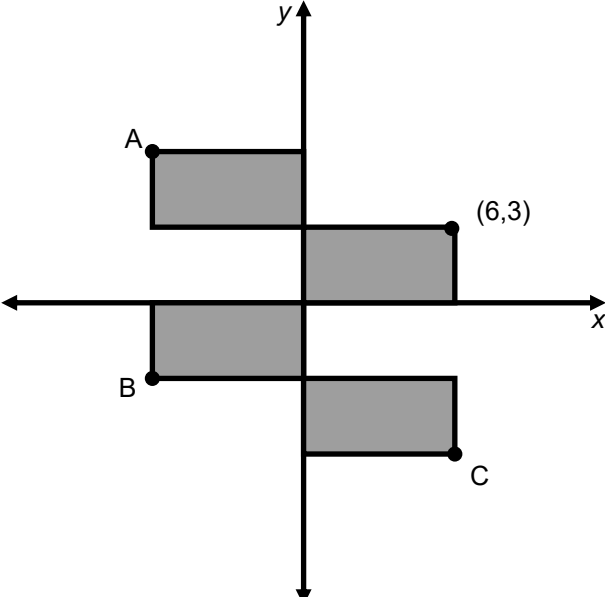


L.O. To describe positions on the full coordinate grid (all four quadrants), predicting missing coordinates using the properties of shapes. **(mastery)**



Here are 4 **identical rectangles** on coordinate axes.

Write the coordinates of points A, B and C.

A =

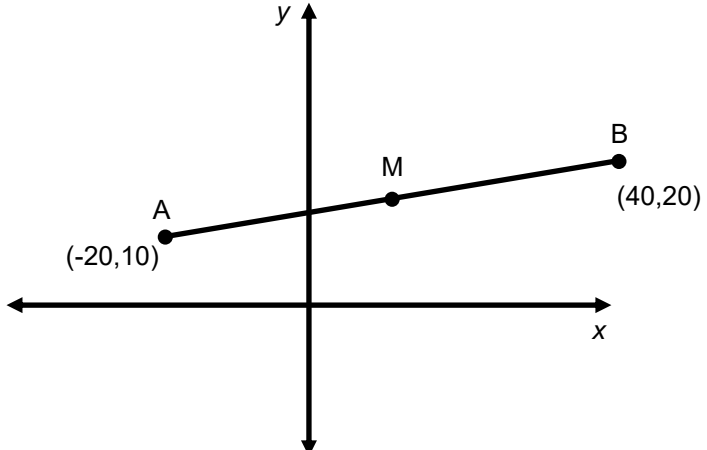
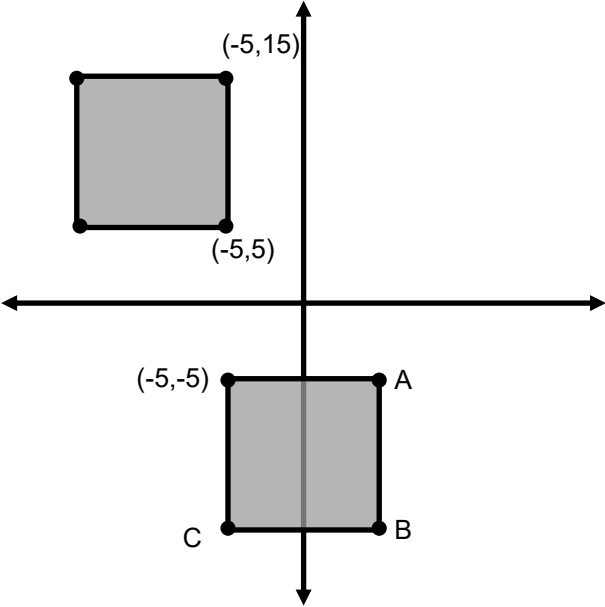
B =

C =

M is the **midpoint** of the line **AB**.

Write the **coordinates** of the point **M**.

M =

Here are 2 **identical squares** on coordinate axes.

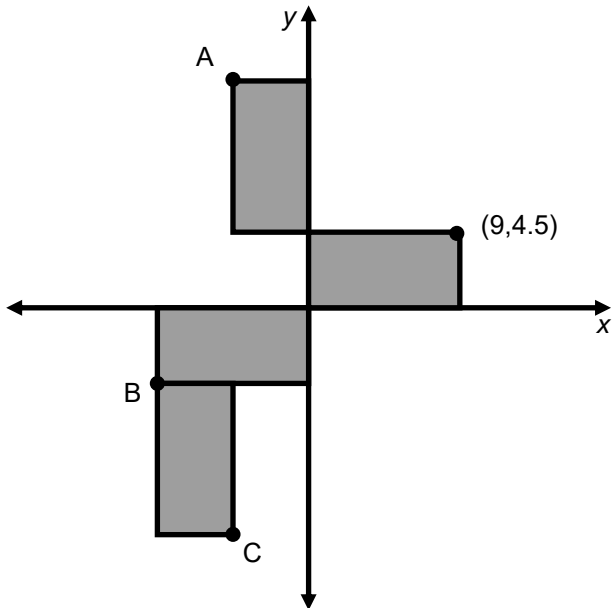
Write the coordinates of points A, B and C.

A =

B =

C =

L.O. To describe positions on the full coordinate grid (all four quadrants), predicting missing coordinates using the properties of shapes. **(mastery with greater depth)**



Here are 4 **identical rectangles** on coordinate axes.

Write the coordinates of points A, B and C.

A = (,)

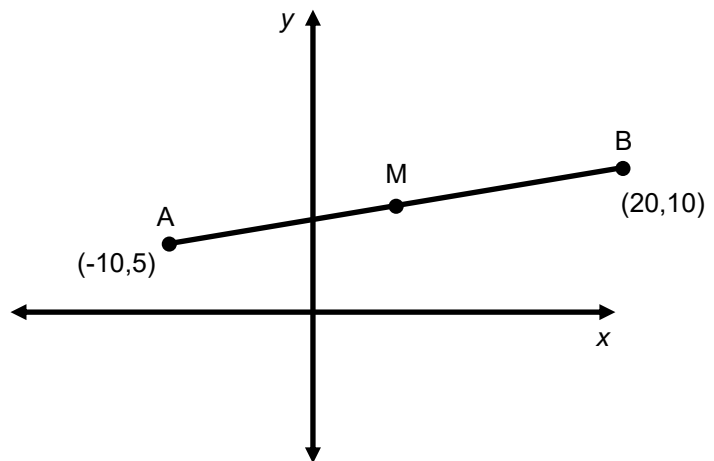
B = (,)

C = (,)

M is the **midpoint** of the line AB.

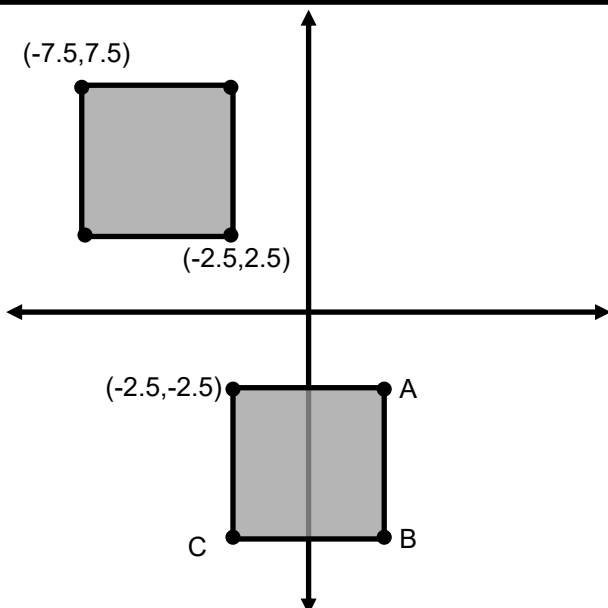
Write the **coordinates** of the point M.

M = (,)



Here are 2 **identical squares** on coordinate axes.

Write the coordinates of points A, B and C.



A = (,)

B = (,)

C = (,)

Answers: Mastery: 1) A = (-6,6) B = (-6,-3) C = (6,-6) 2) M = (10,15) 3) A = (5,-5) B = (5,-15) C = (-5,-15)

Mastery WGD: 1) A = (-4.5,13.5) B = (-9,-4.5) C = (-4.5,-13.5) 2) M = (5,7.5) 3) A = (2.5,-2.5) B = (2.5,-7.5) C = (-2.5,-7.5)

Useful interactive games for teaching coordinates:

Coordinates - Reasoning About Position and Shape

A shape is reflected in a mirror line. What are the coordinates of A?

(? ,)

5
11
12
15
14

http://mathsframe.co.uk/en/resources/resource/153/coordinates_reasoning_about_position_and_shapes

Choose to solve problems either in the first quadrant or in all 4 quadrants.

Primary Maths Strategy

(? ,)

5
11
12
15
14

http://mathsframe.co.uk/en/resources/resource/79/itp_coordinates

	Perimeter of Shapes	?
	Missing Angles	?
	Coordinates - reasoning about position and shapes	?
	Sorting 2D shapes on a Carroll diagram	?
	Sorting 2D shapes on a Venn diagram	?

http://mathsframe.co.uk/en/resources/category/19/shape_and_space

A variety of games to teach geometry.