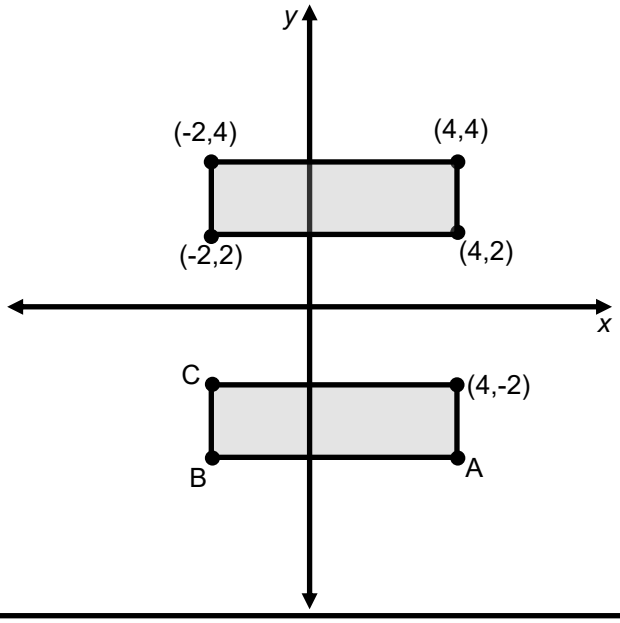
L.O. draw and translate simple shapes on the coordinate plane, and **reflect them in the axes**

(mastery)



A rectangle has been reflected in the x-axis.

Write the coordinates of points A, B and C.

A = (,)

B = (,)

C = (,)

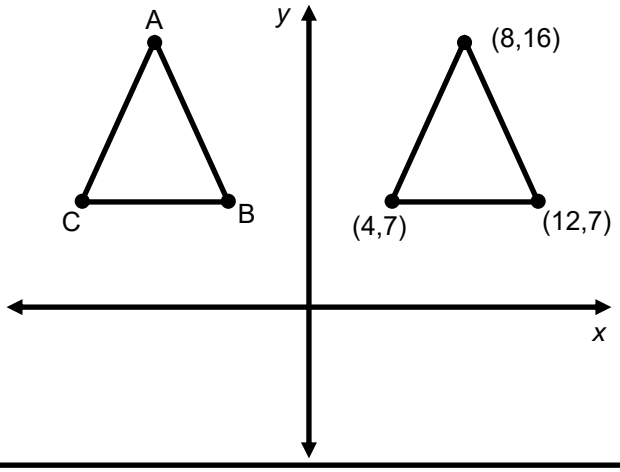
A triangle has been reflected in the y-axis.

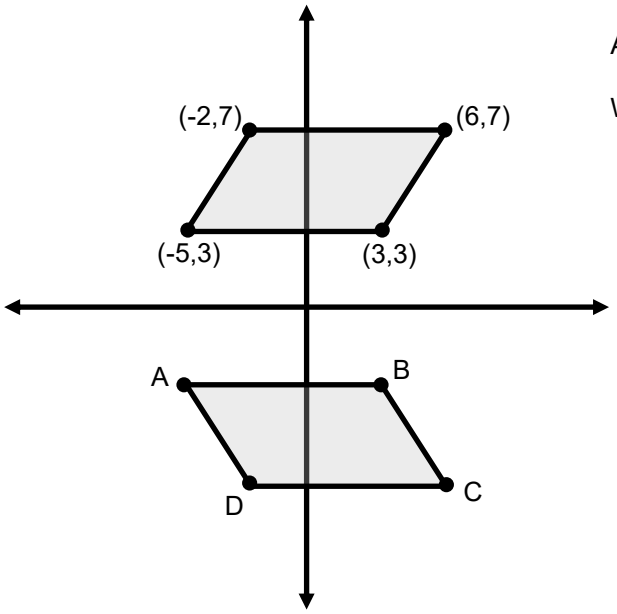
Write the coordinates of points A, B and C.

A = (,)

B = (,)

C = (,)





A parallelogram has been reflected in the x-axis.

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

A = (,)

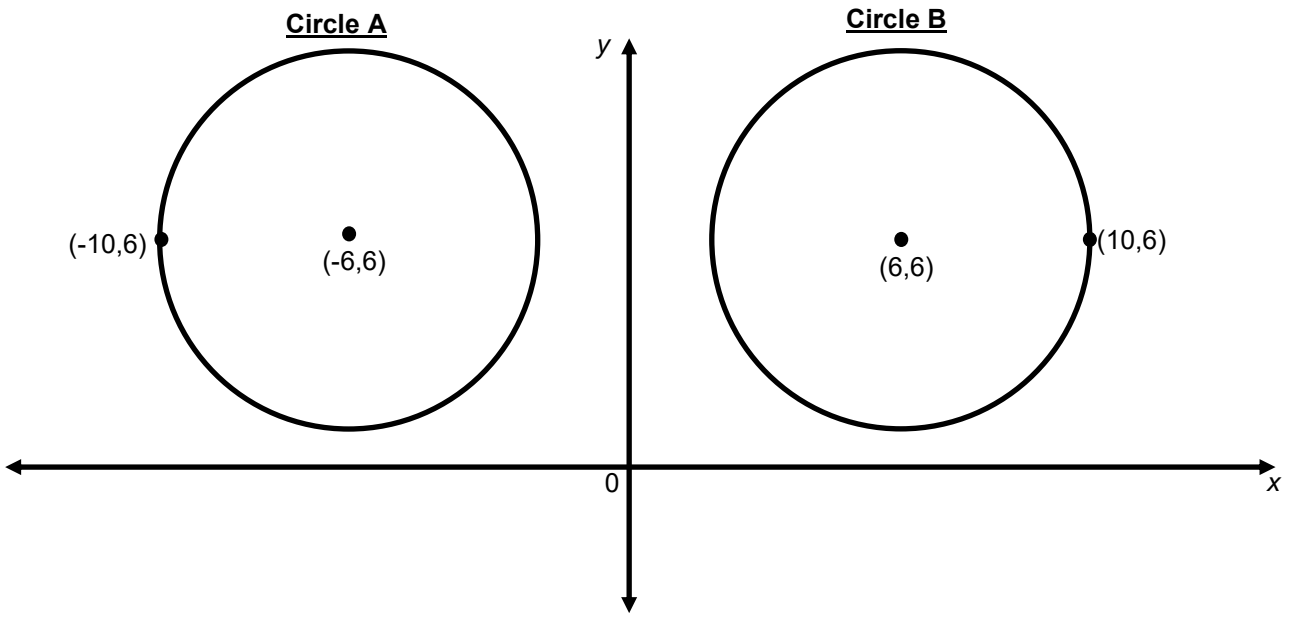
B = (,)

C = (,)

D = (,)

L.O. draw and translate simple shapes on the coordinate plane, and **reflect them in the axes**

(mastery with greater depth)



Here are two identical circles on a coordinate grid.

The point **(-6,6)** is the **centre** of **Circle A**. The point **(6,6)** is the **centre** of **Circle B**.

The point **(-10,6)** is on the circumference of **Circle A**. The point **(10,6)** is on the circumference of **Circle B**.

For each of these points, put a cross (X) to show if it is **inside Circle A**, **on Circle A**, **inside Circle B**, **on Circle B** or **outside both circles**.

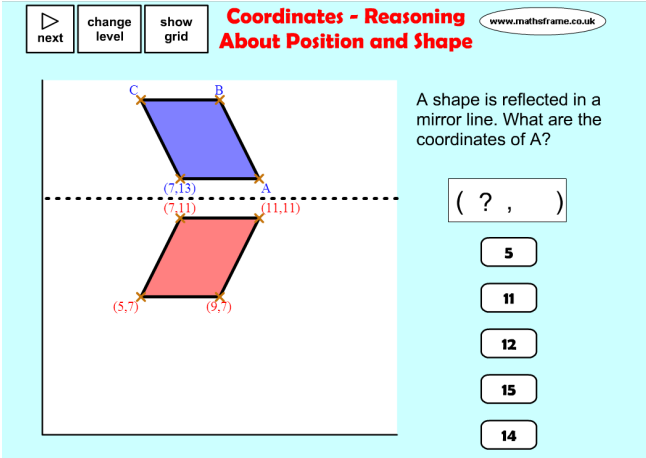
One has been done for you.

	inside Circle A	on Circle A	inside Circle B	on Circle B	outside both circles
(6,2)				**X**	
(8,8)					
(-11,5)					
(-6,10)					
(-6,-10)					
(-2,6)					
(6,-6)					
(-9,6)					
(9,-6)					

L.O. draw and translate simple shapes on the coordinate plane, and **reflect them in the axes**

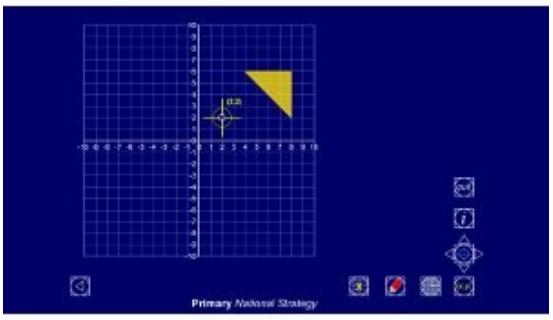
Teacher's notes

Useful interactive games for teaching coordinates:



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.



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

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

A variety of games to teach geometry.

Answers: Mastery: 1) A = (4,-4) B = (-2,-4) C= (-2,-2) 2) A = (-8, 16) B = (-4,7) C= (-12,7)

3) A = (-5,-3) B = (3,-3) C = (6,-7) D = (-5,-3)

	inside Circle A	on Circle A	inside Circle B	on Circle B	outside both circles
(6,2)				**x**	
(8,8)			x		
(-11,5)					x
(-6,10)		x			
(-6,-10)					x
(-2,6)		x			
(6,-6)					x
(-9,6)	x				
(9,-6)					x