

Name:



## Maths Assessment Year 6 Term 2: Geometry - Position and Direction

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You will need a ruler for this task.



1. Describe positions on the full coordinate grid (all four quadrants).
2. Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.

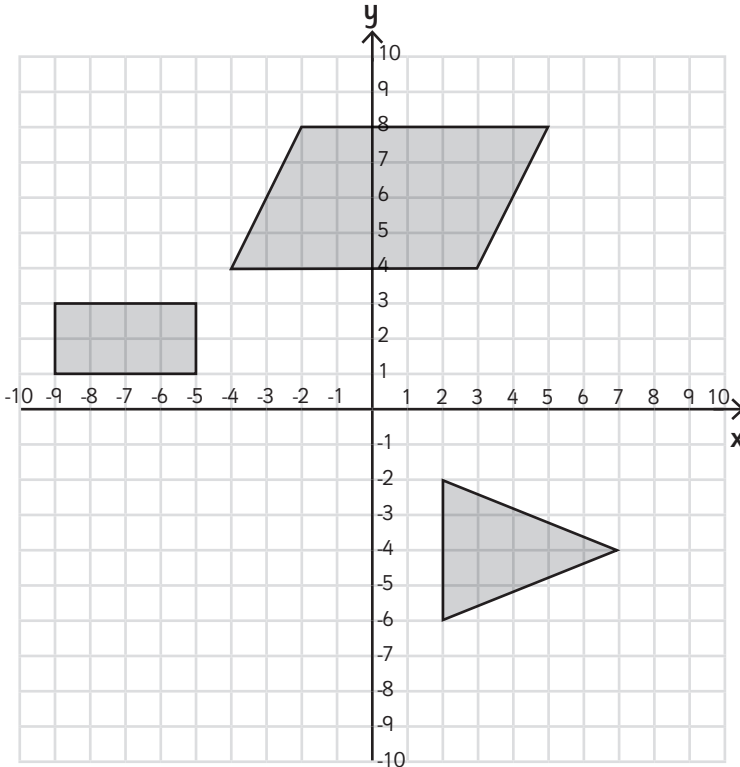
Name:


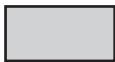
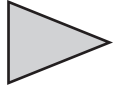
Date:

# Maths Assessment Year 6 Term 2: Geometry - Position and Direction

1. Describe positions using all four quadrants of a coordinate grid.

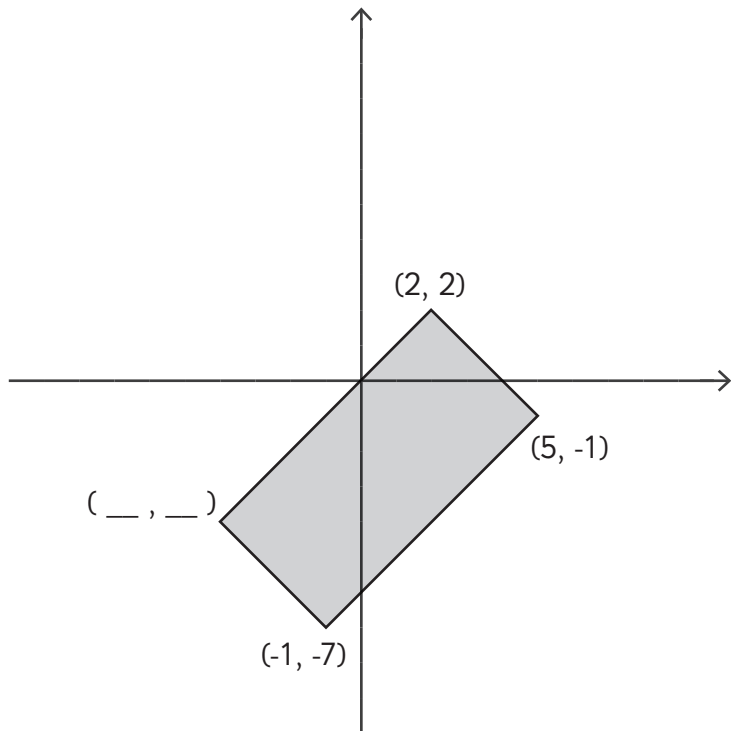
a) Label the coordinates of all of the vertices of each shape:



shape	coordinates
	( __ , __ ) ( __ , __ ) ( __ , __ ) ( __ , __ )
	( __ , __ ) ( __ , __ ) ( __ , __ ) ( __ , __ )
	( __ , __ ) ( __ , __ ) ( __ , __ )

3 marks

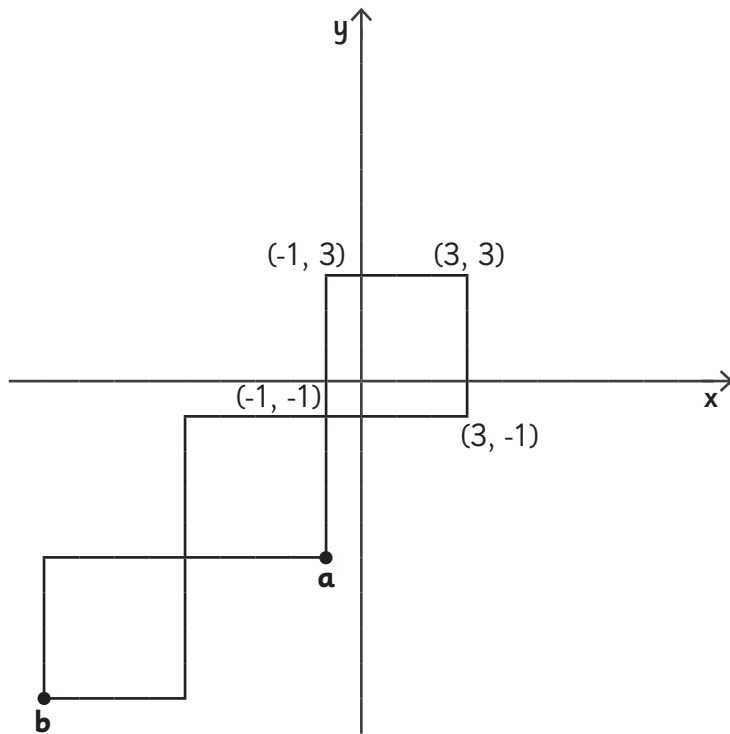
b) Label the missing coordinates of the vertices of this shape:



1 mark

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c) Here are 3 identical squares. What are the coordinates of **a** and **b**?

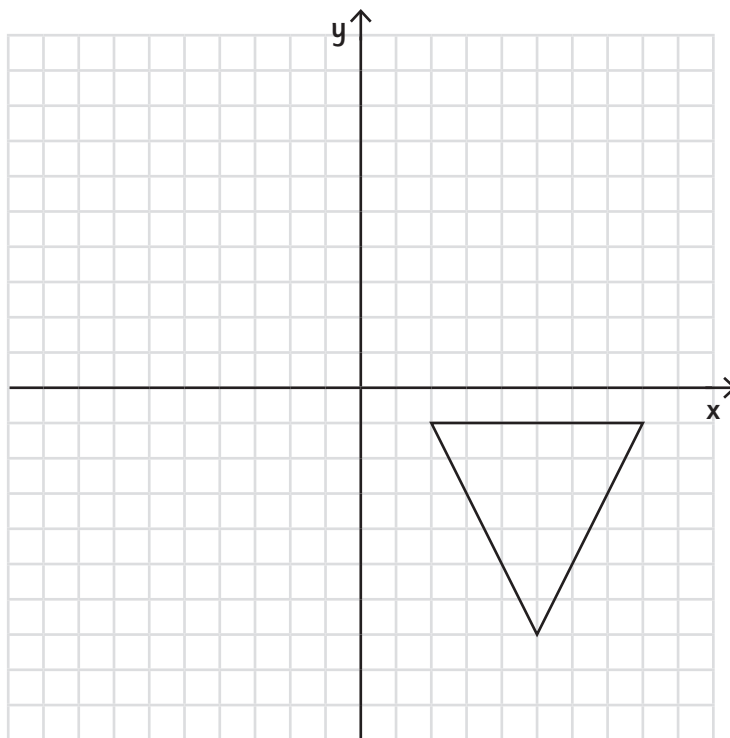


shape	coordinates
<b>a</b>	( __ , __ )
<b>b</b>	( __ , __ )

2 marks

2. Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.

a) Reflect this triangle in the **x** axis:



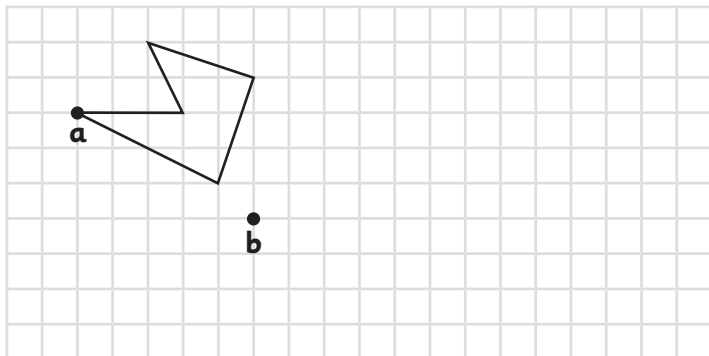
1 mark

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b) The shape is translated so that point A moves to point B.

Draw the shape in its new position.

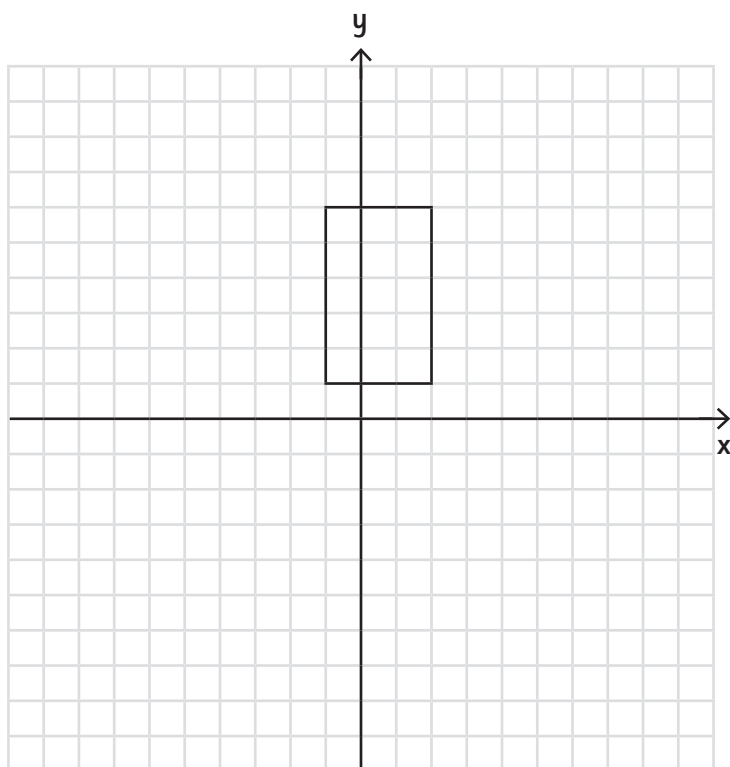
Use a ruler.



1 mark

c) This shape has been reflected in the x axis and then translated 5 places to the left.

Draw the shape in its original position.

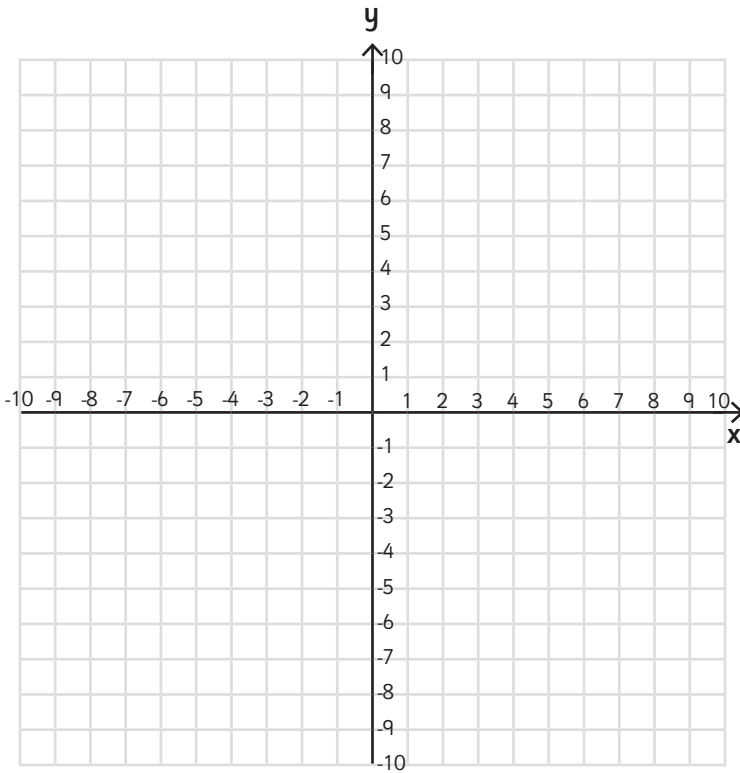


2 marks

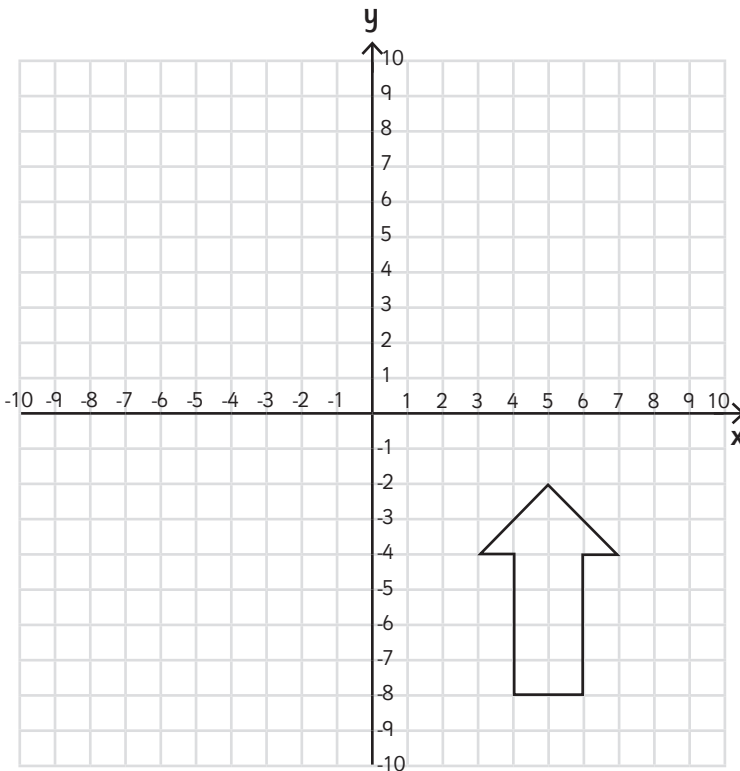


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d) Use these coordinates to draw a shape: (-3,2) (6,2) (3,-1) (-3,-4) (6,-4)



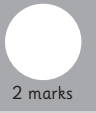
e) Translate this shape 6 places to the left and 7 places up.



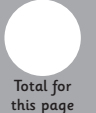
What is the new coordinate for the point of the arrow?



1 mark

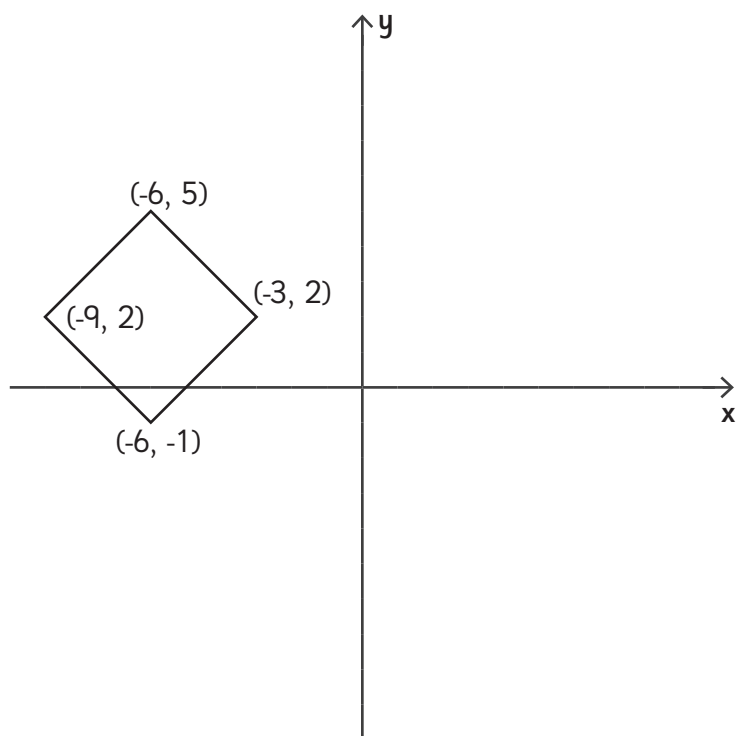


2 marks



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f) Translate this shape 8 places to the right.



Write down the new coordinates of its vertices.



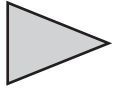


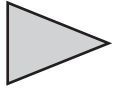


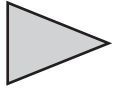
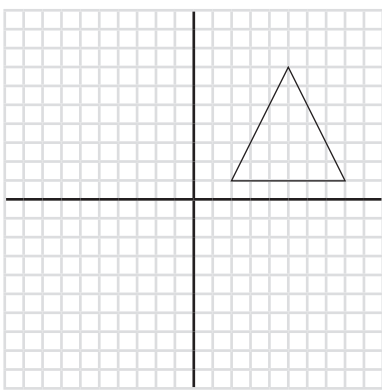
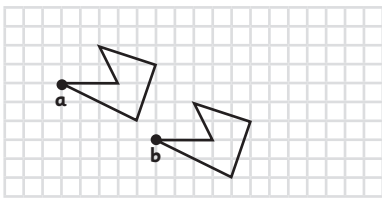
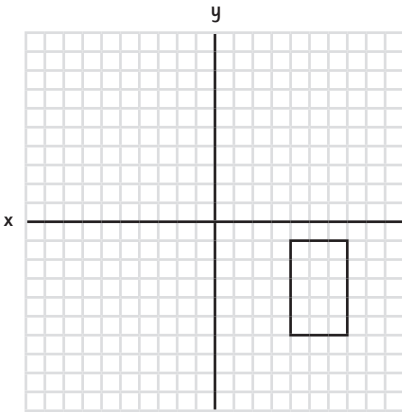
( \_\_ , \_\_ ) ( \_\_ , \_\_ ) ( \_\_ , \_\_ ) ( \_\_ , \_\_ )



2 marks



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this page

question	answer	marks	notes								
<b>1. Describe positions on the full coordinate grid (all four quadrants).</b>											
a	<table border="1"> <thead> <tr> <th>shape</th> <th>coordinates</th> </tr> </thead> <tbody> <tr> <td></td> <td><math>(-2, 8) (5, 8) (3, 4) (-4, 4)</math></td> </tr> <tr> <td></td> <td><math>(-9, 1) (-5, 1) (-5, 3) (-9, 3)</math></td> </tr> <tr> <td></td> <td><math>(2, -6) (2, -2) (7, -4)</math></td> </tr> </tbody> </table>	shape	coordinates		$(-2, 8) (5, 8) (3, 4) (-4, 4)$		$(-9, 1) (-5, 1) (-5, 3) (-9, 3)$		$(2, -6) (2, -2) (7, -4)$	3	1 mark for each set of coordinates correctly identified. Accept coordinates in any order.
	shape	coordinates									
		$(-2, 8) (5, 8) (3, 4) (-4, 4)$									
	$(-9, 1) (-5, 1) (-5, 3) (-9, 3)$										
	$(2, -6) (2, -2) (7, -4)$										
b	$(-4, -4)$	1									
c	a = <b>-1, -5</b> b = <b>-9, -9</b>	2									
<b>2. Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</b>											
a		1									
b		1									
c		2									

question	answer	marks	notes
d		1	
e	<p data-bbox="268 1137 951 1207">What is the new coordinate for the point of the arrow? <b>(-1, 5)</b></p>	2	
f		2	
		Total 15	