

## Coordinates and Translations.

Date:

Name:

*In your exercise books, draw your own 4-quadrant grid and plot the following points and translate them as indicated. Give the new coordinates of the translated point. The first one is done for you.*

	<u>Points</u>	<u>start coordinates</u>	<b>left</b>	<b>right</b>	<b>up</b>	<b>down</b>	End Coordinates:
[1]	<b>A</b>	(0,4)	<b>4</b>		<b>2</b>		A' = (-4,6)
[2]	<b>B</b>	(0,0)	<b>1</b>			<b>3</b>	
[3]	<b>C</b>	(3,3)		<b>1</b>	<b>2</b>		
[4]	<b>D</b>	(2,-2)		<b>1</b>		<b>1</b>	
[5]	<b>E</b>	(-3,2)	<b>0</b>		<b>3</b>		
[6]	<b>F</b>	(-2,-1)	<b>0</b>			<b>1</b>	
[7]	<b>G</b>	(-2,3)		<b>4</b>	<b>4</b>		
[8]	<b>H</b>	(4,1)		<b>0</b>		<b>4</b>	
[9]	<b>K</b>	(0,2)	<b>0</b>			<b>0</b>	
[10]	<b>L</b>	(-4,-1)		<b>4</b>	<b>1</b>		

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	<u>Points</u>	<u>start coordinates</u>	<b>left</b>	<b>right</b>	<b>up</b>	<b>down</b>	End Coordinates:
[1]	<b>A</b>	(0,4)	<b>4</b>	<b>0</b>	<b>2</b>	<b>0</b>	A' = (-4,6)
[2]	<b>B</b>	(0,0)	<b>1</b>	<b>0</b>	<b>0</b>	<b>3</b>	
[3]	<b>C</b>	(3,3)	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	
[4]	<b>D</b>	(2,-2)	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	
[5]	<b>E</b>	(-3,2)	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	
[6]	<b>F</b>	(-2,-1)	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	
[7]	<b>G</b>	(-2,3)	<b>0</b>	<b>4</b>	<b>4</b>	<b>0</b>	
[8]	<b>H</b>	(4,1)	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	
[9]	<b>K</b>	(0,2)	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
[10]	<b>L</b>	(-4,-1)	<b>0</b>	<b>4</b>	<b>1</b>	<b>0</b>	

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## Coordinates and Translations. ANSWERS

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	Points	start coordinates	left	right	up	down	End Coordinates:
[1]	A	(0,4)	4	0	2	0	$A' = (-4,6)$
[2]	B	(0,0)	1	0	0	3	$B' = (-1,-3)$
[3]	C	(3,3)	0	1	2	0	$C' = (4,5)$
[4]	D	(2,-2)	0	1	0	1	$D' = (3,-3)$
[5]	E	(-3,2)	0	0	3	0	$E' = (-3,5)$
[6]	F	(-2,-1)	0	0	0	1	$F' = (-2,-2)$
[7]	G	(-2,3)	0	4	4	0	$G' = (2,7)$
[8]	H	(4,1)	0	0	0	4	$H' = (4,-3)$
[9]	K	(0,2)	0	0	0	0	$K' = (0,2)$
[10]	L	(-4,-1)	0	4	1	0	$L' = (0,0)$

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