

Check out

You should now be able to ...

✓ Identify and draw horizontal and vertical lines on a graph.	6	1
✓ Construct tables of values for graphs.	6	2
✓ Draw and understand straight line graphs.	6	2, 3
✓ Read and interpret real life graphs.	6	4
✓ Understand and draw time series graphs.	6	5

Test it

Questions

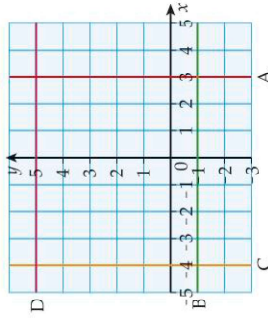
✓ Identify and draw horizontal and vertical lines on a graph.	6	1
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✓ Understand and draw time series graphs.	6	5



Language Meaning Example

Coordinates	Coordinates are two numbers which show the position of a point. They are written in brackets, separated by a comma.	(4, 7) This is 4 units right and 7 units up from (0, 0). (-3, -2) This is 3 units left and 2 units down from (0, 0)
Vertical	A vertical line is a line going straight up. A vertical line is parallel to the y-axis and has the equation $x = \text{something}$.	
Horizontal	A horizontal line is a line going straight across. A horizontal line is parallel to the x-axis and has the equation $y = \text{something}$.	—
Equation	An equation is where an expression is equal to another expression.	$x = 3, y = -2$ and $y = 2x - 1$ are all equations of lines.
Trend	A trend is the general direction for a set of data.	The trend for a set of data would increase, decrease or stay the same.

1 Write the equations of lines A, B, C and D

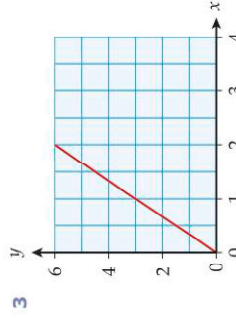


2 For the equation $y = 2x + 1$

a copy and complete the table

x	0	1	2	3	4
2x					
+1	+1	+1	+1	+1	+1
y					

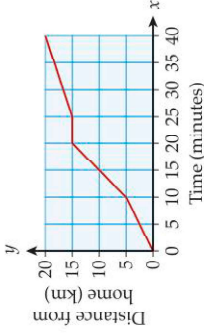
b draw axes with x from 0 to 5 and y from 0 to 10 then draw the graph.



a Write the rule that links the x- and y-coordinates in the graph above.

b What is the equation of the line?

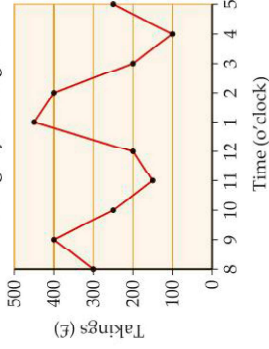
4 The graph shows Jim's journey to work.



- a At what speed was Jim travelling during the first 10 minutes of his journey?
- b How far is Jim's journey to work?
- c What happens 20 minutes into Jim's journey?

5 The time-series shows the takings in the previous hour by a newsagent, for example between 7 and 8 a.m. £300 was made.

Takings by Newsagent



- a What takings were made between 2 and 3 p.m.?
- b During which hour did the newsagent take the most money?
- c When do you think the newsagent is the quietest?

What next?

0 - 2	Your knowledge of this topic is still developing. To improve look at Formative test: 3A-6; MyMaths: 1093, 1184, 1395 and 1396
3 - 4	You are gaining a secure knowledge of this topic. To improve look at Invisipen: 262, 264, 275, 276 and 277
5	You have mastered this topic. Well done, you are ready to progress!

Score