

**Instructions:** Print out this worksheet and watch the revision video simultaneously.

**Pause and Play** the video unlimited times to review your work and write the answers in the blank spaces. Once you have written your answers, check these with the tutorial answers, as explained in the video.

Create your OWN revision cards when prompted on the worksheet (Back to Basic and Core sections).

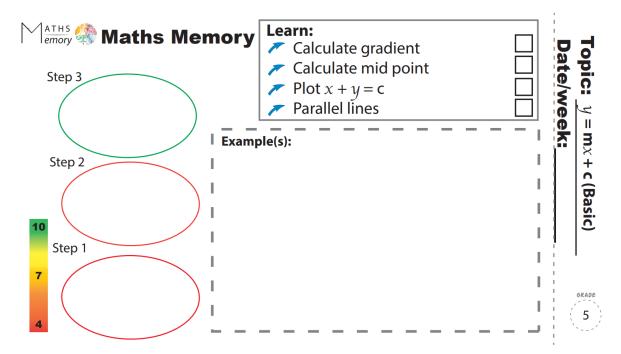
Apply your OWN revision cards ( Let's Do It! section).

Self Assess yourself (Out of 10) on your revision planner after you have completed the revision video.

WATCH this revision video and MANY others on our FULL courses at <u>www.mathsmemory.co.uk</u>



Let's get started and create our Master revision card with this suggested template.



# Back to Basics- Starter questions to warm you up



**Back to Basics** 

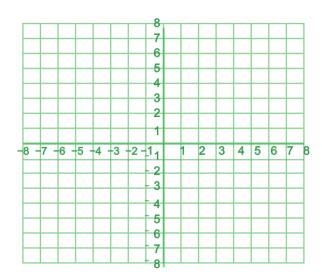
Topic: Basic y=mx+c

## **Question 1**

Plot the following graphs (without a table)

a) y = 2*x* - 1

b) y = -3x + 4





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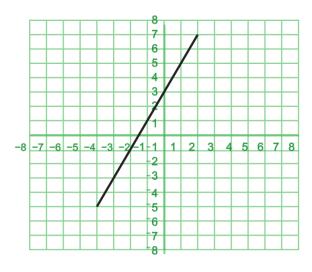


## **Back to Basics**

## Topic: Basic y=mx+c

### **Question 2**

Find the equation of the straight line  $L_1$ . Give your answer in terms of y=mx+c





Back to Basics

Topic: Basic y=mx+c

#### **Question 3**

A straight line L1 passes through the coordinates A(-1,1)and B(2,7). Find the gradient of L1.



Let's get our revision card and create Section A. Look at video for guidance.





**Back to Basics** 



#### **Question 4**

Find the mid point between points A(3,4) and B(6,2).

Let's get our revision card and create Section B. Look at video for guidance.





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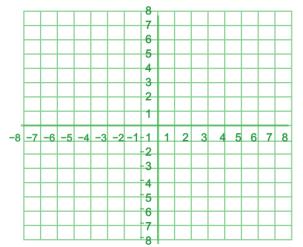
Page 4 of 8



## Back to Basics

### **Question 5**

## Sketch the graph of x+y=3



Let's get our revision card and create Section C. Look at video for guidance.





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Page 5 of 8

### **Core-** Create your revision cards with these exam style questions





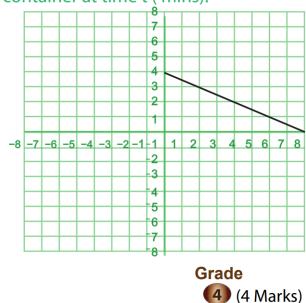
Topic: Basic y=mx+c

### Question 1

The graph shows the volume of liquid (L litres) in a container at time t (mins).

a) Find the gradient

- b) Explain what this gradient represents.
- c) Explain what the y intercept represents.





Core 2

### **Question 2**

a) Point A is the point with coordinates (5,6)Point M is the point with coordinates (11,-2)M is the midpoint of straight line AC.

Work out the coordinates of C.

b) Point A is the point with coordinates (3, *a*)Point B is the point with coordinates (-1, 6).The gradient of the line AB is -2.

Find the value of *a*.

Topic: Basic y=mx+c





#### **Question 3**

L<sub>1</sub> goes through points A(4,-3) and B(2,-2). Find the equation of L<sub>1</sub> in terms of y = mx+c.





# Challenge

# Topic: Basic y=mx+c

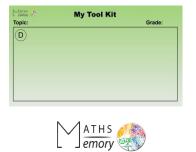
#### **Question 4**

Which ONE line below is parallel to y = 1/2x - 3.

- A: y = -1/2x + 1/2
- B: 2y = 1 x
- C: 2x 4y = 6
- D: 2y = 4x + 3



Let's get our revision card and create Section D. Look at video for guidance.



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# Let's Do It!- Apply your revision cards to another set of exam style questions



Let's Do It !

Topic: Basic y=mx+c

### **Question 1**

L1 passes through points A (-2,-3) and B (-6,3). L2 is parallel to L1 and passes through (0,-1).

Find equation L2. Write in terms of y = mx+c.





# Let's Do It !

Topic: Basic y=mx+c

### **Question 2**

The equation of the line L1 is y = 2x-3. The equation of the line L2 is 3y-6x=8.

a) Show that these two linear equations are parallel to each other.

b) Write down the name of any another linear equation that is parallel to  $2\gamma - x = 4$ .



#### Congratulations. You have completed this topic.

Now go back to your revision planner and rate yourself out of 10.



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