

Name	
Form	
Teacher	

Maths

Homework Booklet

Year 9 Autumn 1

Set 4,5

Topic	Score achieved	Sparx %
1. Sparx	--	%
2. Sparx	-	%
3. Forming and solving an equation	/8	%
4. Plotting co-ordinates	/16	%
5. Plotting a straight line graph	/4	%
6. Interpreting the equation of a linear graph	/8	%
7. Plotting a non-linear graph	/4	%



Week 3

Question 1: I think of a number.
I multiply the number by 3 and then add 5.
The answer is 29.

- (a) Form an equation in terms of x .
- (b) Solve the equation to find the original number.

Question 2: I think of a number.
I multiply the number by 5 and then subtract 2.
The answer is 58.

- (a) Form an equation in terms of x .
- (b) Solve the equation to find the original number.

Question 3: I think of a number.
I divide the number by 2 and then add 1.
The answer is 7.

- (a) Form an equation in terms of x .
- (b) Solve the equation to find the original number.

Question 4: Gregory is x years old.
Daisy is 2 years older than Gregory
The sum of their ages is 40.

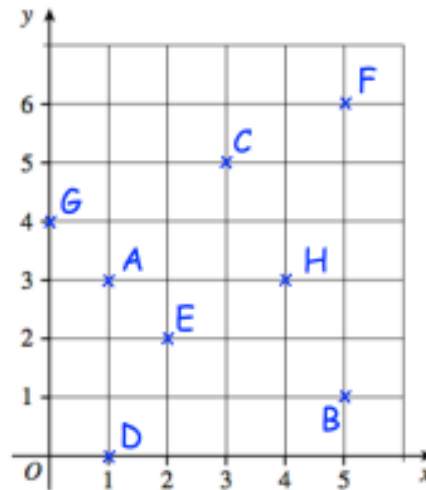
- (a) Form an equation in terms of x
- (b) Solve the equation and work out Gregory's and Daisy's ages.

Sparx – Homework Answers



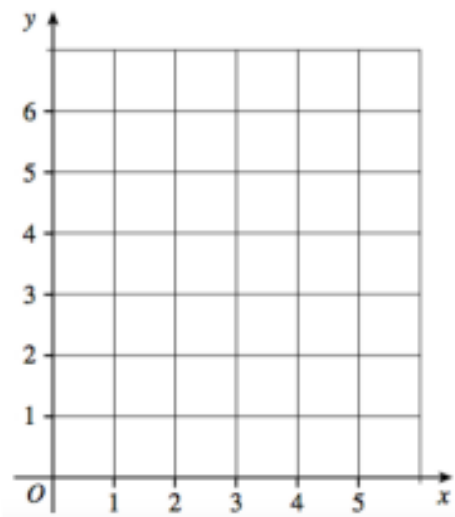
Week 4

Question 1: Write down the coordinates of the points A, B, C, D, E, F, G and H.



Question 2: Plot the following points on grid.

- (a) A (3, 1)
- (b) B (2, 5)
- (c) C (5, 4)
- (d) D (1, 1)
- (e) E (4, 0)
- (f) F (0, 1)
- (g) G (3, 3)
- (h) H (0, 0)



Sparx – Homework Answers



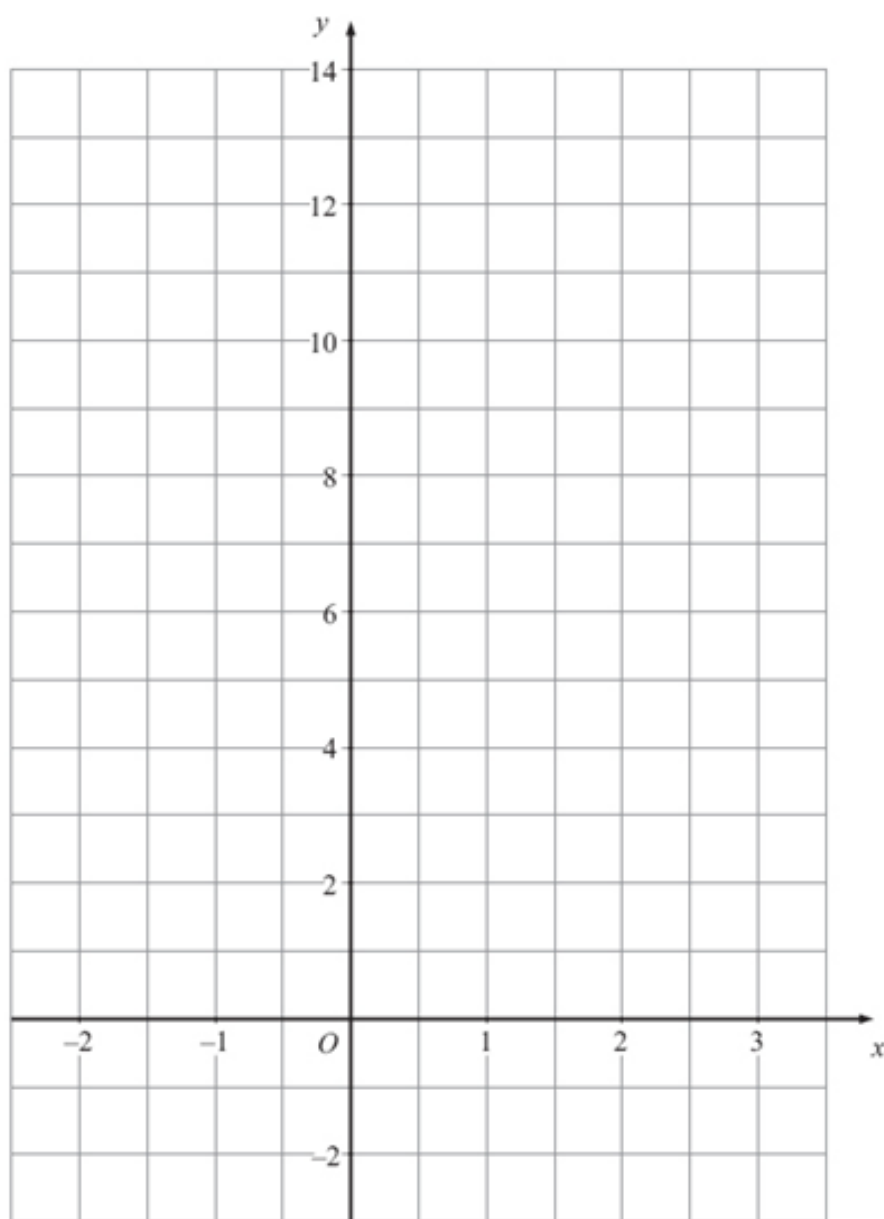
Week 5

(a) Complete the table of values for $y = 3x + 4$

x	-2	-1	0	1	2	3
y		1				13

(2)

(b) On the grid, draw the graph of $y = 3x + 4$



(2)

(Total for Question is 4 marks)

Sparx – Homework Answers



Find the gradient

1) $y = 2x + 3$

2) $y = 10x - 4$

3) $y = 5 + 6x$

4) $y = 2 - \frac{1}{2}x$

Find the y axis intercept

1) $y = 2x + 3$

2) $y = 10x - 4$

3) $y = 5 + 6x$

4) $y + 5 = \frac{1}{2}x$

Sparx – Homework Answers



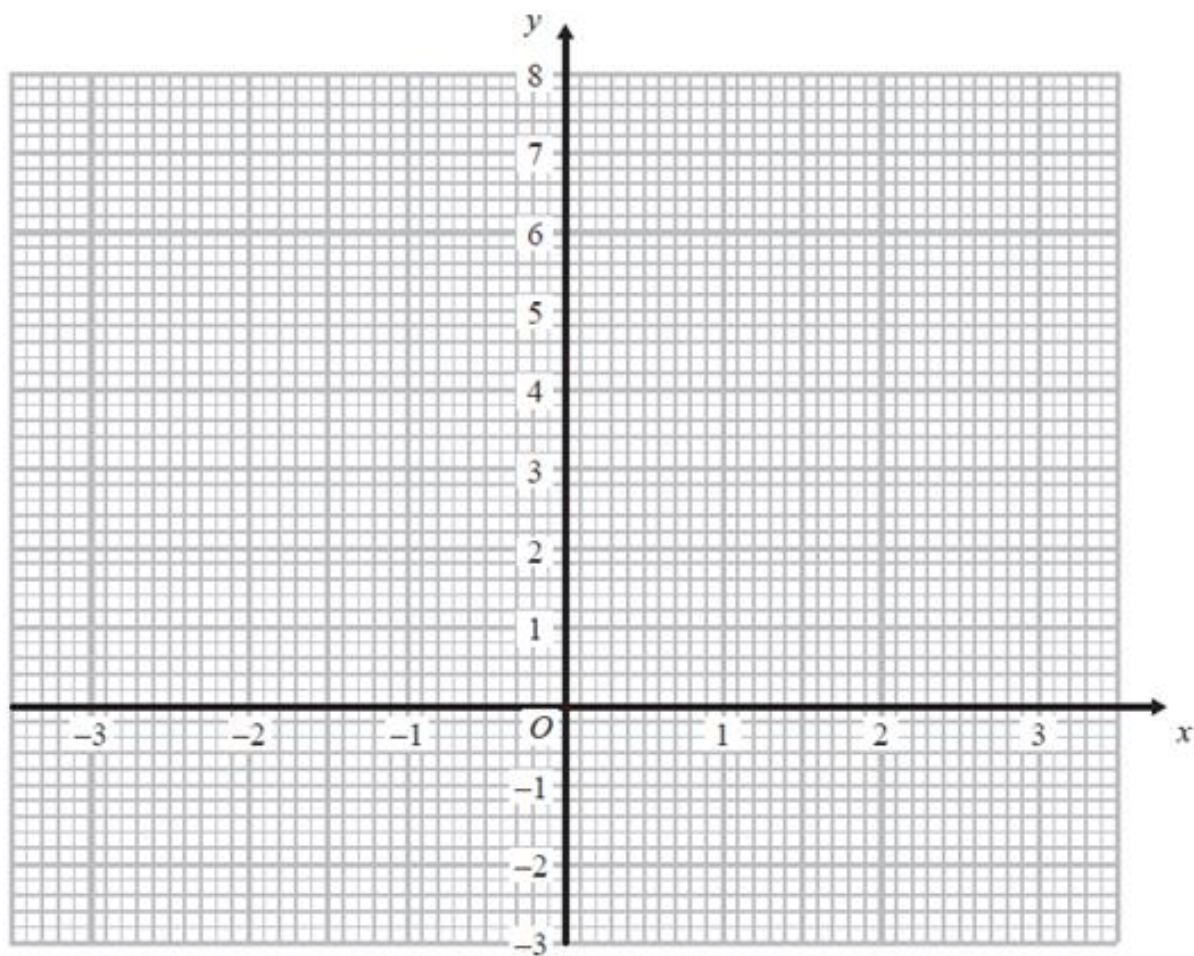
Week 7

(a) Complete the table of values for $y = x^2 - 2$

x	-3	-2	-1	0	1	2	3
y		2	-1			2	7

(2)

(b) On the grid, draw the graph of $y = x^2 - 2$ for values of x from -3 to 3



(2)

Sparx – Homework Answers