Name	
Form	
Teacher	

Maths Homework Booklet Year 8 Autumn 2 Set P,1,2,3

Topic	Score achieved	Sparx %
1. Multiplying Fractions	/16	%
2. Dividing Fractions	/16	%
3. Coordinates in all four quadrants	/19	%
4. Vertical and horizontal lines	/10	%
5. Drawing lines y = mx + c	/16	%
6. Scatter diagrams	/10	%



(d)
$$\frac{1}{3} \times \frac{1}{3}$$

(h) $\frac{5}{8} \times \frac{1}{3}$
(l) $\frac{2}{5} \times \frac{1}{4}$
(p) $\frac{6}{7} \times \frac{2}{3}$

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(h)

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Sparx – Homework Answers	



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(a)
$$\frac{1}{5} \div \frac{2}{3}$$

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$$\frac{1}{5} \div \frac{2}{3}$$

$$\frac{1}{10} \div \frac{4}{9}$$

$$\frac{3}{5} \div \frac{1}{2}$$

$$\frac{1}{5} \div \frac{2}{3}$$
 $\frac{1}{10} \div \frac{4}{9}$

(e)
$$\frac{1}{10} \div \frac{4}{9}$$

$$\frac{3}{5} \div \frac{1}{2}$$

(i)
$$\frac{3}{5} \div \frac{1}{2}$$

$$(m) \quad \frac{5}{6} \div \frac{3}{4}$$

(d)
$$\frac{2}{3} \div \frac{5}{6}$$

(h) $\frac{3}{8} \div \frac{7}{9}$
(l) $\frac{9}{10} \div \frac{1}{3}$

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(d)
$$\frac{2}{3}$$
 ÷ (h) $\frac{3}{8}$ ÷ (p) $\frac{9}{7}$ ÷

8 4 4 77

(p)
$$\frac{5}{7} \div \frac{10}{19}$$

9

8 11

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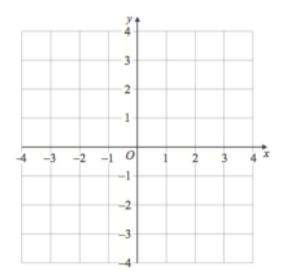
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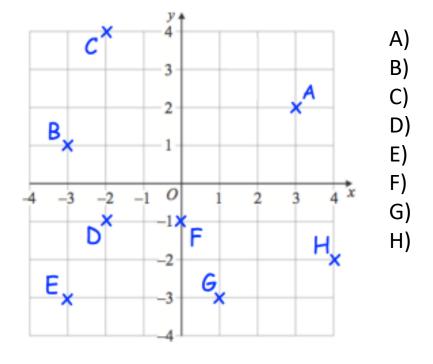


Plot the following points on the axis and label.

- (a) A (1, 4)
- (b) B (-1, 1)
- (c) C (-3, -4)
- (d) D(2,-1)
- (e) E (-2, 0)
- (f) F(-1, -2)
- (g) G (3, -2)
- (h) H (0, -4)
- (i) I (-2, 2)
- (j) J(-4,-1)
- (k) K (0, 1)



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

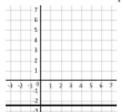


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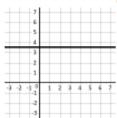
Week 4



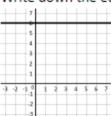
1 Write down the equation of the line



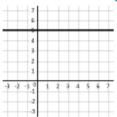
2 Write down the equation of the line



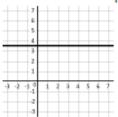
3 Write down the equation of the line



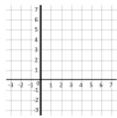
4 Write down the equation of the line



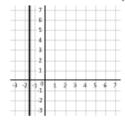
5 Write down the equation of the line



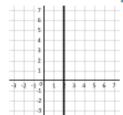
6 Write down the equation of the line



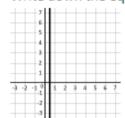
7 Write down the equation of the line



8 Write down the equation of the line



9 Write down the equation of the line



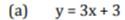
10 Write down the equation of the line

	7 5 4 3 2							
3.2	-2	1	2	3	4	5	6	7

Sparx – Homework Answers	

Week 5

For each equation, complete the table of values and draw its graph for values of x from -2 to 2.



,	ĸ	-2	-1	0	1	2
)	/					

(b) y = x + 9

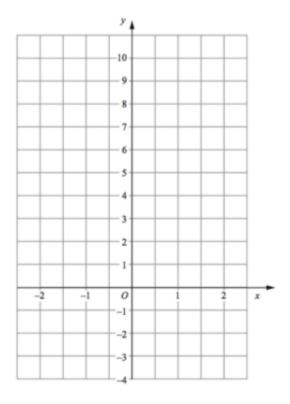
×	-2	-1	0	1	2
у					

(c) y = x - 2

x	-2	-1	0	1	2
у					

(d) y = x

×	-2	-1	0	1	2
у					



For each equation, complete the table of values and draw its graph for values of x from −1 to 3.

(a) y = -2x + 5

x	-1	0	1	2	3
у					

(b) y = -x - 2

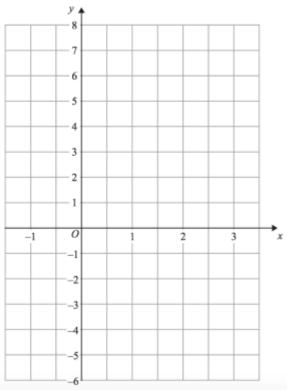
×	-1	0	1	2	3
у					

(c) y = -2x

×	-1	0	1	2	3
у					

(d) y = 6 - x

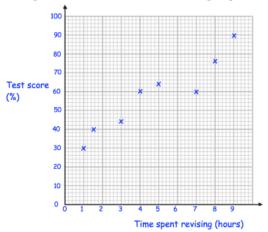
×	-1	0	1	2	3
у					



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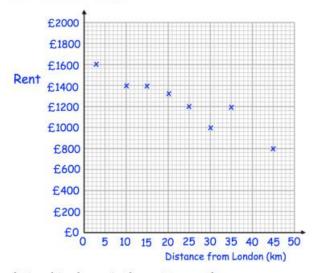
Week 6

Question 1: The scatter graph below shows information about the number of hours spent revising for a test and the test result for a group of 8 students.



- (a) Daisy spent 7 hours revising for the test. What is Daisy's test score?
- (b) Harry's test score was 30%. How many hours did Harry spend revising?
- (c) Draw a line of best fit.
- (d) Another student spent 6 hours revising for the test. Find an estimate of their test score.
- (e) Explain why it might not be sensible to use the scatter graph to estimate the score for a student that spent 15 hours revising.

Question 2: The scatter graph shows information about the cost of renting apartments and their distance from London.



- (a) Describe the relationship shown in the scatter graph.
- (b) Draw a line of best fit on the diagram.
- (c) Estimate the cost of renting an apartment 40km from London.
- (d) Victor has £1100 to spend on rent. Estimate how close he could live to London.
- (e) Explain why it might not be sensible to use the scatter graph to estimate the price of rent for a property that is 250km from London.

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