Lite GCSE Maths Linear Equations 1 Author: Date: Time: 32 Marks: 29 Comments:

Q1. In the magic square, the rows, columns and diagonals add to the same number.

10	W	х
5	У	9
6	11	4

work out the val	ues of <i>w, x</i> and <i>y</i> .	

.....

Answer *w* = *x* = *y* =

(Total 3 marks)

Q2. (a) If
$$x \Leftrightarrow y$$
 means $2x + y$ find the value of $2 \Leftrightarrow 8$

Answer

(1)

(b) If $m \vee n$ means $\frac{m+n}{2}$ find the value of $4 \vee 10$

Answer

(2)

(c) Simplify 6a + 7b - 2a + b

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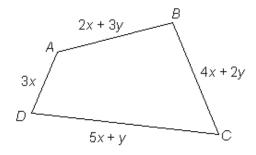
Answer

(2)

	(d)	Solve the equation	5w + 6 = 9 - w	
			Answer <i>w</i> =	(3) (Total 8 marks)
Q3.	((a) Solve the equation	$on \qquad \frac{x}{20} = -4$	
			Answer x =	(1)
	(b)	Solve the equation	8w-5=3w+1	
			Answer <i>w</i> =	(3)
	(c)	Simplify	y + 2 × y × y	
			Answer	(1)
	(d)	Factorise	15 <i>t</i> + 25	
			Answer	(1)

(e)	Factorise	$z^{2} + 8z$	
		Answer	
			(1) (Total 7 marks)

Q4. ABCD is a quadrilateral.



Not drawn accurately

(a)	Write down an expression for the perimeter of the quadrilateral in terms of <i>x</i> and <i>y</i> . Simplify your answer.			
	Answer	(2)		
		(2)		
(b)	When $x = 4$ cm, the perimeter of the quadrilateral is 68 cm.			
	Find the value of <i>y</i> .			
	Answercm			
		(3) 5 marks)		

Q5.		(a)	Solve the equation	$\frac{x}{6} = 7$		
		••••			Answer <i>x</i> =	(1)
	(b)	So 	olve the equation	$\frac{x+1}{2-3x} = 3$		
					Answer <i>x</i> =	(3) (Total 4 marks)
Q6.		(a) W	You are given that fork out the value of 5 <i>x</i>	6 <i>x</i> = 48		
					Answer	(2)
	(b)	So	olve the equation	2(4y - 1) = 18	3	(2)
					Answer <i>y</i> =	(3) (Total 5 marks)