Answer Sheet: Maths Assessment Year 6: Algebra term 2

question	answer	marks	notes
1. Use simple formulae.			
a	a = 9, b = 5, c = 8	3	
b	d = 5, e = 17, f = 2	3	
c	y = 25, y = 58, y = 36	3	
d	77p 20 pens	3	For the second part, 2 marks for a correct answer, but 1 mark for correct calculations with only 1 error in calculating.
2. Generate and describe linear number sequences.			
a	86, 97	1	
b	51	1	
c	44, 62	1	
d	<table><tr><th>term</th><th>calculation</th><th>value</th></tr><tr><td>1st</td><td>3 x 1 – 7</td><td>-4</td></tr><tr><td>5th</td><td>**3 x 5 - 7**</td><td>**8**</td></tr><tr><td>10th</td><td>**3 x 10 - 7**</td><td>23</td></tr><tr><td>20th</td><td>3 x 20 - 7</td><td>**53**</td></tr></table>	4	Award one mark for each box correctly completed.
e	4n + 3 43 30th term	3	
3. Express missing number problems algebraically.			
a	2m + 4	1	
b	p = q – 10 and p + 10 = q	2	Allow any expression which is correct (p + 1 = q – 9)
c	3a = b	1	
di.	£101	1	
ii.	45 shirts	2	2 marks for a correct answer, but 1 mark for correct calculations with only 1 error in calculating.
e	4n – 2	1	

question	answer	marks	notes
4. Find pairs of numbers that satisfy an equation with two unknowns.			
a	1 x 12, 2 x 6, 3 x 4	1	1 mark for all 3 pairs.
b	1 x 32, 2 x 16, 4 x 8	1	1 mark for all 3 pairs.
c	e = 3, f = 7 g = 6, h = 3 l = 8, j = 2	3	1 mark for each correct pair.
5. Enumerate possibilities of combinations of two variables.			
	19 − 3 = 6 18 − 12 = 6 17 − 11 = 6	1	1 mark for all 3 correct combinations identified.

	Value of a	Value of b	marks
	1	4	4
	4	**5**	
	7	**6**	
	10	7	

		Total 40	