Answer Sheet: Maths Assessment Year 6: Algebra



question	answer		marks	notes	
1. Use simple formulae.					
а	3a = 12 $a = 430 = 5b$ $b = 68c = 72$ $c = 948 = 12d$ $d = 4$		4	Award one mark for each answer.	
b	20 = 4h + 4 $h = 43i + 5 = 11$ $i = 214 = 6j - 4$ $j = 32k - 5 = 5$ $k = 5$		4	Award one mark for each answer.	
C			4	Award one mark for each answer.	
2. Generate and describe linear number sequences.					
а	39 47 55 63	71	1		
b	26		1		
С	22 38 54 70		1		
d	1st 5 x 1 + 1 6 5th 5 x 5 + 1 2 10th 5 x 10 + 1 5	6	4	Award one mark for each box correctly completed.	
e	$3 \times 4 - 1$ $3 \times 5 - 1$ $3 \times 4 + 1$		1		
f			2	Award two marks for the formula correctly identified. Award one mark for a correct answer, but no formula.	
3. Express missing number problems algebraically.					
a	9h - 16 16h + 9 (9h + 16)		1		
b	When Emily is 11, Becky will be 15 When Becky is 17, Emily will be 13		2	Award one mark for each correct answer.	
С	(l+w) x 2 or 2l+2w		1		



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d	The cost of tiling a floor where the area is 10 square metres would be £60		1	Award one mark for each correct answer.		
	The area of a floor where the tiles cost £110 would be 20 square metres		2	Award one mark if it is clear that the calculation (110 - 10) ÷ 5 has been used but the answer is wrong.		
е	8h - 5 or 8 x h - 5 or (8h) - 5 or (8 x h) - 5		1			
4. Find pairs of numbers that satisfy an equation with two unknowns.						
а	1 x 18 2 x 9 3 x 6		1	Award one mark for all three number		
b	1 x 12 2 x 6 3 x 4		1	pairs identified.		
С	e = 3 f = 7 g = 6 h = 3 i = 8 j = 2		3	Award one mark for each pair of numbers identified.		
5. Enumerate possibilities of combinations of two variables.						
	1 x 2 = 2 2 x 2 = 4 3 x 2 = 6 4 x 2 = 8 5 x 2 = 10		1	Award one mark for all 5 possible combinations identified.		
	Value of a	Value of b				
	4	11 32	4			
	3	25				
			Total 40			