

Topic Test 4 Mark Scheme

Basic algebra - Foundation

Q	Answer	Mark	Comments
1	$3 + 16 - 4$	M1	
	15	A1	
2	$3 \times (4 + 2) \div (8 - 2) = 3$	B1	
3	He has said $a + a + a = 3a$ and $b + b = 2b$ then multiplied $4 \times 3a \times 2b$.	B1	oe
	$4 + 3a + 2b$	B1	
4	(Tuesday =) $m + 35$ (Wednesday =) $2m$	B1	
	$m + m + 35 + 2m$	M1	ft their answers
	$4m + 35$	A1	
5	$21a + 56$	B2	B1 for either $21a$ or 56
6 (a)	$20h + 28$ or $10h - 14$	M1	
	$20h + 28 + 10h - 14$	M1	
	$30h + 14$	A1ft	ft their answers if M1 awarded
6 (b)	$27k + 9$ or $-10k + 20$	M1	
	$27k + 9 - 10k + 20$	M1	
	$10k + 29$	A1ft	ft their answers if M1 awarded

Q	Answer	Mark	Comments
7	$2(3x - 2)$ or $2 \times 4(x + 1)$	M1	oe
	$2(3x - 2)$ and $2 \times 4(x + 1)$	M1	oe
	$2(3x - 2) + 2 \times 4(x + 1)$ or $6x - 4 + 8x + 8$	M1	
	$14x + 4$ or $2(7x + 2)$	A1	
8 (a)	$5(2x + 3)$	B1	
8 (b)	$6(6x - 8)$	B1	
8 (c)	$9x(3 + 5x^4)$	B2	B1 for correct partial factorisation
8 (d)	$11xy^2(4x^2 - 3y^2)$	B2	B1 for correct partial factorisation
9	$6(n - 5) = 42$ joined to equation $w = 7h + 30$ joined to formula $5(n - 6)$ joined to expression $4(n + 7) \equiv 4n + 28$ joined to identity	B2	B1 for 2 correct
10	-2, -1, 0, 1	B2	B1 for 3 correct and 0 incorrect or for 4 correct and 1 incorrect
11	$C = 3 + 1.20s$	B1	
12	$4(5x + 1) = 6(6x - 2)$	B1	oe