

Expanding & Simplifying

Mark Scheme

1. (i) $4c$
B1 oe
- (ii) p^4
B1 cao
- (iii) $10pr$ or $10rp$
B1 3
- [3]
2. (a) $6xy$
B1 any order, no \times sign 1
- (b) $3x + 4y$
B2 (B1 for either $3x$ or $4y$ seen) (cannot isw) 2
- (c) $15x + 35$
B1 cao (cannot isw) 1
- [4]
3. (a) $5a+2b$
B2 cao
(B1 for either $5a$ or $2b$) 2
- (b) $2x^3$
B1 cao 1
- [3]
4. (a) $2p - q$
B1 cao for $2p$
B1 cao for $-q$ accept $(-q + 2p)$, $2p - 1q$ and $2p + - q$ 2
- (b) 1.4
 $5x = 3 + 4$
M1 for either $(+3$ or sight of $7)$ or $(\div 5$ or sight of 0.8 and $0.6)$
A1 cao accept $\frac{7}{5}$ or $1\frac{2}{5}$ 2
- [4]
5. (a) (i) $8g$
B1 oe 2
- (ii) $10rp$
B1 for $10pr$ or $10 rp$
- (b) $10y - 15$
B1 cao accept $10y - + 15$ 1

	(c)	$-6x + 23$	2	
		$6x + 8 - 12x + 15$		
		<i>M1 for 3 correct terms out of 4</i>		
		<i>A1 cao</i>		[5]
6.	(a)	$6x + 4y$	2	
		<i>B1 for either 6x or 4y</i>		
		<i>B1 cao</i>		
	(b)	$3pq$	1	
		<i>B1 cao (not $3 \times p \times 2$)</i>		[3]
7.	(a)	(i) $a + 3b$	2	
		<i>B2 for $a + 3b$ oe</i>		
		<i>(B1 for a or 1a or 3b)</i>		
		(ii) $2x^2 + x$	2	
		<i>B2 for $2x^2 + x$ oe</i>		
		<i>(B1 for $2x^2$ or x or 1x)</i>		
	(b)	(i) $8x - 12$	1	
		<i>B1 oe</i>		
		(ii) $pq - p^3$	1	
		<i>B1 oe accept $p \times q - p \times p^2$ or better</i>		
	(c)	$5p + 16$	2	
		$15p + 10 - 10p + 6$		
		<i>B2 for $5p + 16$ oe</i>		
		<i>(B1 for any two terms correct from 15p, +10, -10p, +6)</i>		[8]
8.	(a)	(i) $3e + 2f$	2	
		<i>B1 for $3e + 2f$</i>		
		(ii) $3p^2$		
		<i>B1 for $3p^2$</i>		
	(b)	-14	2	
		$5 \times -3 + 1$		
		<i>M1 for $5 \times -3 + 1$</i>		
		<i>A1 for -14</i>		[4]
9.	(a)	$2y$	1	
		<i>B1 for 2y or $2 \times y$, y^2, $y \times 2$</i>		
	(b)	$3p^2$	1	
		<i>B1 for $3p^2$ or $3 \times p^2$ or $p^2 \times 3$ or $p^2 3$</i>		[2]