Question		on	er	Marks	Guidance		
1			2, 3, 17 as final answer	2	May be expressed as a product	Condone 2 + 3 + 17 etc for 2 marks	
					Allow M1 for correct division or factor tree	If answer line blank, allow 2 marks for correct factor tree or division with 2, 3 and 17 clearly identified eg circled	
					Or M1 for two of 2, 3, 17 or for all 3 seen + one extra	For M1 , ignore one other factor or one repeat eg M1 for 2, 3, 34 But M0 for 1, 2, 3, 3, 34	

2	(a)	3x + 4y - 5 final answer	3	B2 for <u>two</u> of $3x$, (+) $4y$, -5 Or B1 for <u>one</u> of $3x$, (+) $4y$, -5	
	(b)	$\frac{3x}{2y}$ final answer	2	B1 for $\frac{3xy}{2y^2}$ or $\frac{15x}{10y}$ or $\frac{1.5x}{y}$ seen	
	(C)	2x(2x + 5y) final answer	2	B1 for $2(2x^2 + 5xy)$ or $x(4x + 10y)$ seen Or SC1 for $4x(x + 2.5y)$ or $(2x + 0)(2x + 5y)$ seen	

3	(a)	7x final answer	2	B1 for $\frac{7x}{1}$ or for $\frac{14x}{2}$ or $\frac{7x^2}{x}$ seen	
	(b)	$27y^2 - 18y + 20$ final answer	4	B2 for $15y^2 - 10y$ Or B1 for $15y^2$ or $-10y$ AND B1 for $12y^2 - 8y + 20$	
	(C)	5(2x-3) final answer	1		Condone omission of right- hand bracket
	(d)	± 4	3	B2 for answer (+)4 or answer -4 or for $(\pm)\sqrt{16}$ seen or for $(x - 4)(x + 4)$ [=0] Or M1 for x^2 = 16 Or for $x^2 - 16$ [=0]	

4	(a)		2 ² × 3 oe	1	Must be product	
	(b)	(i)	48	2	B1 for answer as 24 or a multiple of 24 that is greater than 48 eg 72 or 96 Or M1 for lists of multiples of 8 and of 12 (at least 3 each)	
		(ii)	[48 or <i>their</i> (i)] + multiples of 24	2	Or go up in 24s oe B1 for multiples of 24 oe mentioned or for 'multiples of 48'	See appendix for examples

5	(a)	3	1		
	(b)	Any three of 8, $28\sqrt{3}$, $10\sqrt{3}$, $35\sqrt{9}$	M2	M1 for any two of these	Accept 35 × 3 or 105 or $35\sqrt{3^2}$ for $35\sqrt{9}$
		113 + 38√3 isw	B1		Final mark independent of method

6	(a)	18y + 30 as final answer	1		
	(b)	5(y-3) as final answer	1	oe Condone omission of final bracket; allow inclusion of multiplication sign	
	(c)	$\frac{13}{2}$ as final answer	3	 oe ignore subequent conversion M2 for 2x = 13 Or M1 for one side of this correct or for x terms or constant term collected correctly AND M1 for <i>their</i> answer correct FT (rot to at least one dp if needed), after at least M1 earned 	eg M1 for 2 <i>x</i> – 2 = 11 eg allow final M1 for 1.08 after 12 <i>x</i> = 13

7	(a)	2 ² × 3 × 5 × 7 oe	2	Must be expressed as product M1 for at least two of 2, 3, 5, 7 seen as factors isw	Do not allow 1 in the product for 2 marks e.g. may be seen in division or factor tree
	(b)	HCF = 6	1		
		LCM = 1260	2	M1 for any of the following seen anywhere 3 multiples of 18 and 3 multiples of 420 or 420 × 3 or for $2^2 \times 3^2 \times 5 \times 7$ or any multiples of 1260	e.g. HCF = 1260 scores M1