

Question		Answer	Marks	Part Marks and Guidance	
1	(a)	Jenny has divided by the smaller number	1	oe condone 'by smaller decimal'	see appendix for examples [Common with Foundation]
	(b)	multiplying by a number less than 1 makes the answer smaller	1	oe condone decimal or fraction instead of number less than one	[Common with Foundation]

Question		Answer	Marks	Guidance
2		81, 664 ÷ 4 (oe) =166, 196, 1200 ÷ 5 =240	5	
		As above but with no methods (for % and/or fraction	4-3	For lower mark 3 or more correct values
		2 correct values	2-1	For lower mark 1 correct value
		Nothing of any worth.	0	

3	(a)		$\frac{13}{20}$	3	B2 for $1 - \frac{7}{20}, \frac{26}{40}$ oe Or M1 for common denominator found and at least one fraction correctly converted	Allow whether mixed number or proper fraction converted
	(b)	(i)	$\frac{2}{5}$	3	M2 for attempt at $1 \div \frac{5}{2}$ seen or $\frac{4}{10}$ oe or 0.4 Or M1 for $1 \div 2.5$ seen, 2.5^{-1} seen or $\frac{5}{2}$ seen or any a/b written as b/a or a written as 1/a or a^{-1} seen	
		(ii)	0	1		
4			4700	3	M2 for 2.35×2000 oe Or M1 for 1.35×2000 oe soi by 2700	

5	(a)		0.089	2	B1 for other rot versions of 0.08854... to 2 or more dp or SC1 for answer 13.553 or 3.627	allow B1 for 0.089 seen in body and spoilt on answer line e.g. answer of 0.110 – bod wrong rounding
	(b)		700	2	B1 for other rot versions of 718.40... to 2 or more sf	

6	(a)	(i)	148.877	1	Condone rot to at least 4 sf	
		(ii)	5.4 as final answer	2	B1 for 5.425 or 5.42 or 5.43 Or SC1 for 7.5	
	(b)		0.4 or $\frac{2}{5}$ as final answer	1		
	(c)		$(7 \times 2 + 6)^2 = 400$ $(6 + 4) \times 2 - 5 = 15$	1 1	For each answer, ignore superfluous extra pairs of brackets	

7	(a)	$\frac{3}{8}$, 40%, $\frac{5}{12}$ oe with correct method	<p>4</p> <p>M1 for attempt at using correct method for changing a value to a different denominator, a decimal or % oe</p> <p>A1 if correct</p> $\frac{3}{8} = \frac{27}{72} = \frac{45}{120} = 0.3[7\dots] \text{ or } 0.38$ $\frac{5}{12} = \frac{30}{72} = \frac{50}{120} = 0.41[\dots] \text{ or } 0.42$ <p>Or if converting to unit fractions</p> <p>M1A1 for any 1 of $\frac{3}{8} = \frac{1}{2.6(\dots)}$,</p> $40\% = \frac{1}{2.5}, \frac{5}{12} = \frac{1}{2.4}$ <p>And</p> <p>A1 for second correct conversion to same form</p> <p>OR</p> <p>If 0 scored</p> <p>SC2 for reasonable attempt at drawing equivalent bars (or other diagrams) followed by correct answer</p> <p>Or SC1 for correct answer with no working</p>	<p>soi by $\frac{48}{120}$, $\frac{40}{100}$, $\frac{2}{5}$ etc</p> <p>0.38 does not alone imply correct method</p> <p>Condone 2.6[...], 2.5 or 2.4 for M1 only</p> <p>Fourth mark dependent on M1A2</p>
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8	(a)		$\frac{4}{5}$	1		
	(b)		85	1		
	(c)		English with full correct work	3	Soi by eg 85% B2 for <u>any</u> two correct in the same form Or B1 for Science correct as %, frac or dec. <i>[One value may occur in (a) or (b)]</i>	$\frac{648}{840}$ oe [Sc] 0.77[1..] or 77[.1..]% or $\frac{672}{840}$ oe [Ma] 0.8[0] 80% or $\frac{714}{840}$ oe [En] 0.85 or 85% or $\frac{714}{840}$ oe oe If fractions must be same denominator

9	(a)	(i)	4.18	2	B1 for 4.177[....] seen	
		(ii)	1.4	2	B1 for 1.42[....] seen	
		(iii)	0.0625 final answer	1		
	(b)		UB: 6549 LB: 6450	1 1	Condone 6550 After 0 allow SC1 for correct answers reversed	

10	(a)		0.019	2	B1 for 0.0186... seen or rot to 2dp or more, except 0.019 SC1 for 4.612	Allow B1 for 0.02, whether from rounding calculated answer or from estimate
	(b)		$2 \times (2 + 6) \times 4 = 64$ $(2 \times 2 + 6) \times 4 = 40$	1 1	Allow superfluous pairs of brackets in one or both answers	

11			$a = 2$ $a = 2k$ $b = 5$ or $b = 5k$ $c = -6$ $c = -6k$	1 1 2	Any consistent $k \neq 0$ M1 for $(their\ b)^2 - 4 \times (their\ a) \times c = 73$ oe	Must be an equation
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12	(a)		7.84	2	M1 for 481.89... seen (eg may be under root symbol) or for 2.8 seen	
	(b)		2.31 as final answer	2	B1 for other rot versions of 2.30596... to at least 1 dp or for figs 231 Or SC1 for 17.54 or 223.28 or 203.18	
	(c)		0.8 or $\frac{4}{5}$	1		

13	(a)		$\frac{5}{11}$	3	B2 for $\frac{45}{99}$ oe Or M1 for $100x = 45.\dot{4}5$ (min 4 figs)	
	(b)		$\frac{1}{22}$	1FT	Corre or FT <i>their</i> (a) $\div 10$ in its lowest terms	