

Question		Answer				Marks	Part Marks and Guidance	
1	(a)	Gold	Silver	Bronze	Total	3	B3 for all 5 entries correct; B2 for 3 or 4 entries correct; B1 for 2 entries correct	[Common with Foundation] B0 just one entry correct
		13	11	9	33			
		11	5	10	26			
		10	10	5	25			
		34	26	24	84			
	(b)	2h 8m 2s				2	B1 for 2 elements correct or for 2h 7m 62s	

2	(a)	-- 46 119 37 44 -- -- 90 --	3	B2 for 4 correct Or B1 for 2 correct	
	(b)	$\frac{110}{200}$ oe isw	2	B1 for $\frac{n}{200}$ or $\frac{110}{n}$	<u>In 1(b),(c),7(a),(b),12(b)&20</u> , -1 once for poor notation eg 0.15/1
	(c)	$\frac{Their46}{200}$ oe isw	1FT		

3	(a)		64, 19	1		
	(b)		1200	1		
	(c)		75, 25 any order	1		

4			$\begin{array}{r} 7 \\ 7 \quad 7 \\ 53 \quad 10 \quad 33 \\ \quad \quad 22 \end{array}$	3	B2 for 5 correct Or B1 for 2 correct	
---	--	--	---	---	---	--

5	(a)		59 & 28 63 & 6	2	B1 for 3 correct	
	(b)	(i)	$60 \div 0.05$ or $\frac{60}{0.05}$	1		Allow 'busstop' method with clear 60 and 0.05
		(ii)	1200	3	M2 for full correct method or M1 for one correct step If zero scored SC1 for figs 12 as answer nfw	e.g. attempt at long division (60/0.05 or 6000/5) seen that would lead to correct order of magnitude and first step correct e.g. 20 per second, 20 ~ 1, 2 per 0.1 s, <i>their</i> 20 x 60, etc 20 or 60/5 alone do not score

6	(a)		41	2	B1 for ($1\frac{1}{4}$ lb =) 20 (oz) or ($2\frac{1}{4}$ lb =) 36 (oz) or ($\frac{1}{2}$ lb =) 8 (oz) or $7\frac{1}{4}$ or 116	
	(b)	(i)	$31\frac{1}{4}$	2	M1 for $\frac{5}{4} \times \frac{25}{(1)}$ or $\frac{125}{4}$ oe or $25 + 25 \times \frac{1}{4}$ or full method for 1.25×25 with no more than one arithmetic error or 32 nfw	eg $\frac{500}{16}$ earns M1 but $1\frac{1}{4} \times 25$ only does not score Condone 31.25 for 2
		(ii)	11	2	M1 for (<i>their</i> 125) $\div 12$ or 10(...) or an embedded answer of 10 or 11	eg $10 \times 12 = 120$ or $12 \times 11 = 132$ Could be through clear counting on

7	(a)	12	4	<p>B1 for use of a correct unit change</p> <p>M1 for $2(0) \times 21$ or $42(0)$ or figs 67/figs 2 or figs 335, 33</p> <p>M1 for $(\textit{their } 67(0) - \textit{their } 42(0))/2(0)$ or $\textit{their } 67(0)/2(0) - 21(0)$</p>	<p>Condone 66(0) used</p> <p>ie units must be consistent here so $(670 - 420)/2$ scores B1M1M0 Division may be implied eg $11 \times 2 = 24$ with answer of 11 or by 'counting on' Condone $67(0) \div 2(0) = 33.1$, 33.05 etc, similarly $25 \div 2 = 12.1$ etc</p>
	(b)	£3.53		<p>M1 for $20 - (3.99 + 5.49 + 6.99)$ soi B1 for £16.47 seen</p>	<p>eg answer of 2.53 following 17.47 scores M1</p>

8		<p>Fully correct and concise solution ($\square = -2$, $\diamond = 9$). Correct and clear (language and) algebra throughout.</p> <p>Fully correct solution but there might be superfluous work eg finding values of other symbols first or minor errors in spelling, punctuation or grammar or lack of clear algebraic method.</p> <p>Alternatively it may be a fully correct method up to finding the value of one variable, with at most one error, and correct and clear (language and) algebra throughout.</p> <p>Numerical trial and improvement approach leading to 2 correct values or correct equations and some progress made eg correct method such as coefficients of one variable equated allowing for one arithmetic slip.</p> <p>Alternatively they write the two equations (enable the solution to be found) with a clear explanation of how these were obtained eg letters on the diagram, use of symbols in algebra, use of 's' and 'h' or key given.</p> <p>No work of any value</p>	5	<p>No need for language providing the algebra is clear and logical and steps explained eg use of a key, $\times 2$ or $-$ signs</p>
			4-	<p>For lower mark – more progress eg correct method such as elimination of one variable correctly from the 2 simplest equations ($3s + h = 3$ and $2h + 2s = 14$) allowing for one arithmetic slip at any stage or with 3/4 variables/symbols with elimination of one of these allowing for one arithmetic slip at any stage or correct method leading to only 1 value found correctly.</p> <p>Alternatively they will have the correct equations with some progress made by equating coefficients correctly and clear (language and) algebra throughout.</p>
			2-	<p>For lower mark – only 1 correct value found by trial and improvement or sufficient equations to solve the problem correctly written with no further progress</p> <p>Alternatively one correct equation with a clear key.</p>
			0	<p>The common approach to make judgements on simultaneous equations is:</p> <p>Each term of an equation must change when multiplied to be the correct method, two terms must be correct. When adding or subtracting the two equations to eliminate a variable, the operation must be applied consistently to all terms to be a correct method.</p>

9	(a)		11.6	2	M1 for $3.7 + 2.1 + 3.7 + 2.1$ oe	
	(b)		$10x - 6$ or $2(5x - 3)$ final answer	3	M2 for $2(3x + 2 + 2x - 5)$ oe soi OR B1 for $6x + 4$ seen B1 for $4x - 10$ seen After 0 , allow SC1 for $5x - 3$ seen or for $10x$ seen in answer	
	(c)	(i)	48.69 to 48.71	2	M1 for $\pi \times 15.5$ oe	
		(ii)	1.8 or $\frac{9}{5}$ or $1\frac{4}{5}$ $1.8[0\dots]$ or $\frac{9}{5}$ or $1\frac{4}{5}$	2 1FT	M1 for $27.9 \div 15.5$ or $(87.65 \text{ to } 87.7) \div (48.69 \text{ to } 48.71)$ FT <i>their</i> scale factor	

10	(a)	(i)	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="text-align: center;">21</td> </tr> <tr> <td style="text-align: center;">37</td> <td></td> </tr> <tr> <td style="text-align: center;">77</td> <td></td> </tr> </table>		21	37		77		3	B2 for two correct entries Or B1 for one correct entry	If a space is blank, accept clear evidence in working space eg Joe White = 21
			21									
37												
77												
		(ii)	8 : 7	1	Accept 1 : 0.875 or 1.14[...] : 1							
	(b)		12	3	nfww M2 for $\frac{60}{\text{their } (7 + 5 + 3)} \times 3$ oe Or M1 for $60 \div \text{their } (7 + 5 + 3)$ oe or for 4							

11			882[.00]	1	<i>Their</i> 216.65 ÷ 35 rot to 2dp	If VAT is blank but answer 1334.4[0] then VAT mark can be implied
			216.65	1		
		6.19	222.4[0]	1FT		
			1334.40	1	Must be correct money notation for final mark 1112 + <i>their</i> 222.4[0]	

12		3.51	2	M1 for 3.509677... rounded or truncated to 1 dp or more or SC1 for 5.73	5.73 from $6.26 - 0.82 \div 1.55$ to 2 dps
----	--	------	---	--	--