

Paper: 1MA1/2F				
Question	Working	Answer	Mark	Notes
6 (a)		$\frac{3}{7}$	B1	for $\frac{3}{7}$ or equivalent fraction
<b>Q1</b>				
(b)		3 : 1	B1	for 3 : 1 or equivalent ratio

Paper: 1MA1/2F				
Question	Working	Answer	Mark	Notes
11		5 : 2 : 10	P1	for process to calculate total for quiz or total of membership fees eg. $13 \times 5 + 35$ (=100), $25 \times 20$ (=500)
<b>Q2</b>			P1	for complete process to write (correct) figures as a ratio, eg 250 : 100 : 500 oe in any order (condone inclusion of units or words)
			A1	cao

Paper: 1MA1/1F				
Question	Working	Answer	Mark	Notes
10 <b>Q3</b>		1 : 10	M1 A1	for 12 : (20 × 6) oe <b>or</b> 10 : 1 <b>or</b> 1 with 10 in incorrect notation cao

Paper: 1MA1/3F				
Question	Working	Answer	Mark	Notes
5 (a)		1 : 3	B1	oe
(b) <b>Q4</b>		42	M1 A1	ft 56 ÷ 4 (= 14) or complete method to find number of grey tiles eg 56 – (56 ÷ 4), 56 ÷ 4 × 3 oe (= 42) for 42 or ft

Paper: 1MA1/3F				
Question	Working	Answer	Mark	Notes
10 <b>Q5</b>		75	P1 P1 A1	for 90 ÷ 6 (= 15) or for connecting <i>AB</i> and <i>BC</i> by ratio or proportion eg 5 and 1 on the diagram for a complete method to find the length <i>AB</i> eg 90 ÷ 6 × 5 (= 75) cao

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
16	30:1	M1	for stating $450 : 15$ oe <b>or</b> $450 \div 15 (=30)$ oe <b>or</b> $1 : 30$	90 : 3
<b>Q6</b>		A1	cao	Ignore units throughout.

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
14	Isabel (supported)	P1	for process to work with $\frac{3}{4}$ eg $1 - \frac{3}{4} (= \frac{1}{4})$ oe, eg 25% or $\frac{25}{100}$ <b>or</b> $\frac{3}{4} = 75\%$ or $\frac{75}{100}$ <b>or</b> value of salary (say 1000) $\times 3 \div 4 (= 750)$	
<b>Q7</b>		P1	for process to work with ratio 3 : 7 eg $\frac{3}{3+7}$ oe <b>or</b> $\frac{7}{3+7}$ oe <b>or</b> value of salary (say 1000) $\div (3+7) (= 100)$	
		A1	for (28(%)), 25(%) and 30(%) <b>or</b> 72(%), 75(%), 70(%) <b>or</b> 0.28, 0.25, 0.3 <b>or</b> for using value of salary (say 1000) giving 280, 250, 300 <b>or</b> 720, 750, 700	
		C1	(dep P2) for Isabel or ft their comparative values	“Isabel” alone without supported evidence, gets 0 marks.

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
17	1 : 3	M1	for $\frac{1}{4} : \frac{3}{4}$ oe <b>OR</b> for any correct un-simplified ratio, eg 25 : 75	
<b>Q8</b>		A1	cao SC: B1 for an answer of 3 : 1 or $1 : \frac{1}{3}$ if M0 scored	Ignore ‘units’ such as 1 nuts : 3 no nuts $1 : 3n$ gets M1A0

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
16 (a)          <b>Q9</b>	10	M1	for a start of method to find Bispah's share, eg $2.50 \times 8 (= 20)$ <b>or</b> $\frac{1}{2} \div \frac{1}{8} (= 4)$	Accept 10.00  Accept working in pence, or in £ given as a decimal oe NB: award this mark if the working is seen in part (a)  Accept 3:1 (correct answer in reverse order) which can also be an equivalent ratio to 3:1  Award full marks for 1 : 3 or an equivalent ratio. If an equivalent ratio to 1:3 is shown and then simplified incorrectly award full marks.
		A1	cao	
	1 : 3	P1	for a process to find Chan's share, eg "20" – 2.5 – [Bispah's money] (=7.5) <b>or</b> $1 - \frac{1}{8} - \frac{1}{2} (= \frac{3}{8})$	
		P1	for a correct ratio eg $2.5 : "7.5"$ <b>or</b> $\frac{1}{8} : "\frac{3}{8}"$ <b>or</b> $3 : 1$ oe	
		A1	for 1 : 3 oe eg 5 : 15	

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
6 <b>Q10</b>	3 : 5	B1	for 3 : 5 or for any other equivalent ratio	

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
14 <b>Q11</b>	2 : 1	B1	cao	

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
12  <b>Q12</b>	$\frac{9}{25}$	M1  A1	for $\frac{n}{6+9+10}$ where $n$ is an integer $< 25$  for $\frac{9}{25}$	Or equivalent fraction

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
9 (a)	$\frac{3}{7}$	B1	o	
Q13 (b)	1 : 2.5	M1	for appropriate method shown eg $30 \div 12 (= 2.5)$ <b>or</b> for a method that involves simplification of 12 : 30 approaching 1 : $n$ , eg. 4 : 10 or 6 : 15 or 2 : 5 <b>or</b> for 2.5 : 1 or $2\frac{1}{2} : 1$	
		A1	for 1 : 2.5 or $1 : 2\frac{1}{2}$ <b>or</b> for $n = 2.5$	Accept a fraction equivalent to $2\frac{1}{2}$ , eg. $1 : \frac{30}{12}$  2.5 alone gets M1A0

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
12  <b>Q14</b>	1 : 6 : 3	M1  A1	for any two algebraic statements from $x$ , $6x$ , $6x/2$ oe <b>or</b> any two numbers as a correct ratio eg 1 : 6 or 6 : 3 or 1 : 3 oe <b>or</b> any 3-term ratio using the numbers 1, 6 and 3  oe	For any equivalent ratio.

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
22	Description	C1	<p>Identifies a mistake in the working</p> <p><b>Acceptable examples</b>                      Rob should divide by 8                      He should have added the 3 and 5 first                      He divided 120 by 3 and 5 instead of 8                      He did not do it as <math>120 \times \frac{3}{8}</math> and <math>120 \times \frac{5}{8}</math>                      He did not add the two ratios first</p> <p><b>Not acceptable examples</b>                      He has done it in two parts but he should do it in one                      The answer should be 45 : 75                      They do not add up to 120                      He is supposed to add his numbers                      40 + 24 does not equal 120</p>	
<b>Q15</b>				



Paper 1MA1: 1F				
Question	Working	Answer	Mark	Notes
15		45	M1	for a correct first step eg $\frac{9}{7+4+9}$ ( $=\frac{9}{20}$ ) <b>or</b> $\frac{100}{7+4+9}$ ( $=5$ ) <b>or</b> a full method for one of the other colours
<b>Q16</b>			A1	cao

Paper 1MA1: 1F				
Question	Working	Answer	Mark	Notes
18		135	M1	for $450 \div "2+3+5"$ ( $=45$ ) <b>or</b> $3 \times 450$ ( $=135$ ) <b>or</b> 5 parts are 225 <b>or</b> 2 parts are 90
<b>Q17</b>			A1	indicated Cao

Paper 1MA1: 1F				
Question	Working	Answer	Mark	Notes
24		14:21:42	P1	for 2 out of 3 expressions in one letter eg from $x, x+7, 2x+14$ <b>or</b> see a set of numbers to show interpretation of the relationships, eg 10, 17, 34
<b>Q18</b>			P1	(dep) for sum of their 3 expressions $=77$ eg $x + x+7+2x+14 =77$ oe <b>or</b> 2 systematic correct trials including addition
			P1	for a correct process to isolate their term in $x$ <b>or</b> $x=14$
			A1	for ratio 14:21:42 oe

Paper: 1MA1/3F				
Question	Working	Answer	Mark	Notes
15		(£6), 18, 24, 27	M1	demonstrates a proportional method to find at least one cost for cotton, eg. $£6 \div 2 \times 9$ (= (£)27) or a correct entry in the table.
<b>Q19</b>		15, 45, 60, 67.50	M1	demonstrates a proportional method to find at least one cost for silk, eg. $£6 \div 2 \times 5$ (= (£)15) or a correct entry in the table.
			A1	for a fully correct table (accept 67.5(0))

Paper: 1MA1/3F				
Question	Working	Answer	Mark	Notes
22		15	P1	strategy to start the problem, eg 8 : 20 and 20 : 5
<b>Q20</b>			P1	process to solve the problem, eg $\frac{5}{33} \times 100$ or 24 : 60 : 15
			A1	cao

Paper: 1MA1/3F				
Question	Working	Answer	Mark	Notes
18		68	P1 P1 P1 P1 A1 OR P1 P1 P1 P1 A1	for a process to find the number of vanilla cakes, eg $420 \times 2 \div 7$ oe (= 120) for a process to find the number of banana cakes, eg $420 \times 0.35$ oe (= 147) (dep P1) for a full process to find the number of lemon/chocolate cakes eg $420 - (\text{vanilla cakes}) - (\text{banana cakes})$ (= 153) (dep on previous P1) for a process to find the number of lemon cakes eg "153" $\div 9 \times 4$ oe (= 68) cao OR for writing two proportions in the same format for combining the proportions of vanilla and banana cakes eg $2/7 + 7/20$ (= 89/140) (dep P1) for a full process to find the proportion or number of lemon/chocolate cakes eg $1 - "89/140"$ (= 51/140) (dep on previous P1) for a process to find the number of lemon cakes eg "51/140" $\times 420 \div 9 \times 4$ (= 68) cao
<b>Q21</b>				

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
13	4 : 1 : 2	M1  A1  (SCB1)	for start to express the statements as a ratio eg 4 : 1, 1 : 4, 1 : 2 or 2 : 1 with clear and correct link to Azmol, Ryan, Kim  <b>OR</b> as algebraic expressions, two of $4x$ , $x$ and $2x$ eg $4x : x$ , $1x : 4x$ , $1x : 2x$ or $2x : 1x$ with clear and correct link to Azmol, Ryan, Kim  4 : 1 : 2 oe  3 integer numbers in correct ratio but no ratio notation, eg 4, 1, 2 or 20, 5, 10)	Allow any equivalent ratio, integers only May be seen as part of an incorrect answer.  May be seen as integer multiples of these algebraic expressions. Any letter may be used.  Accept 8 : 2 : 4 or equivalent ratios involving integers
<b>Q22</b>				

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
20	140	P1	for beginning to solve the problem eg $50 \div 5 \times 8 (= 80)$ <b>or</b> $14 : 8 : 5$ oe <b>or</b> $14 : 8$ and $8 : 5$ oe (linked)	80 may be seen in the ratio 80 : 50
<b>Q23</b>		P1	for a full process to solve the problem eg “80” $\div 4 \times 7$ <b>or</b> $\frac{50}{5} \times “14”$ <b>or</b> $140 : 80 : 50$	
		A1	cao	If 140 clearly identified as houses in working award full marks

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
23	3 : 5	P1	for process to find 20% <b>or</b> 120% of the cost, eg $8500 \times 0.2 (= 1700)$ oe <b>or</b> $8500 \times 1.2 (= 10\ 200)$ oe	When partitioning all figures quoted must be correct or a full method shown eg $10\% = 8500 \div 10 (=850)$ and $20\% = “850” + “850” (=1700)$
<b>Q24</b>		P1	for process to find total cost of payments, eg $12 \times 531.25 (= 6375)$	
		P1	for complete process to find value of deposit, eg “10 200” – “6375” (= 3825) <b>or</b> $8500 - “6375” (=2125)$ <b>and</b> “2125” + “1700” (=3825) <b>OR</b> the deposit as a proportion of the total cost, eg $1 - \frac{“6375”}{“10200”} (= \frac{3}{8})$	May be seen as a fraction of the total eg $\frac{3825}{10200} (= \frac{3}{8})$
		P1	for finding a correct un-simplified ratio, eg “3825” : “6375” oe <b>or</b> $5:3$ <b>or</b> $1.6\dot{6} : 1$ <b>or</b> $\frac{5}{3} : 1$	Figures at this stage must be expressed as part of a ratio eg $51:85$ , $\frac{3}{8} : \frac{5}{8}$
		A1	Accept $1:1.6\dot{6}$ , $1:\frac{5}{3}$	Ignore consistent units

Paper: 1MA1/1F				
Que. tion	Answer	Mark	Mark scheme	Additional guidance
21       <b>Q25</b>	2  (supported)	P1	for a process to find the number of men, eg. $(60 \div 2) \div 3 (= 10)$	$60 \div 3 = 20$ scores no marks.  Any ratio must come from correct processes to find the number of children and the number of men  Award 0 marks for 2 with no correct supportive working  Award full marks for 2 : 1 given as final answer from correct supportive working
		P1	for a process to find the number of children, eg. $60 - "30" - "10" (= 20)$	
		P1	for a start of a process to find the value of $n$ , eg. $(“20” : “10”) \div 5$ or $20 : 10 = 10 : 5$ or $“20” \div “10”$	
		A1	for 2 with supportive working	

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
23       <b>Q26</b>	18	P1	for $240 \div 10 (= 24)$ <b>or</b> $240 \div 8 (= 30)$	Accept $3 + 7$ for 10, $3 + 5$ for 8
		P1	for $3 \times “24” (= 72)$ <b>or</b> $7 \times “24” (= 168)$ <b>or</b> $3 \times “30” (= 90)$ <b>or</b> $5 \times “30” (= 150)$	
		P1	for $3 \times “24” (= 72)$ <b>and</b> $3 \times “30” (= 90)$ <b>or</b> $7 \times “24” (= 168)$ <b>and</b> $5 \times “30” (= 150)$	
		A1	cao	

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
27	96	P1	for process to find the ratio of the number of pens of each colour sold, eg $2 \times 7 : 5 \times 3 : 6 \times 4$ (= 14 : 15 : 24)	Does not have to be seen as a ratio but all three needed  P3 can be implied by the values 56, 60 and 96
<b>Q27</b>		P1	for process to find the proportion of green pens sold, eg $\frac{212}{"14"+"15"+"24"}$ or $\frac{"24"}{"14"+"15"+"24"}$	
		P1	for a complete process to find the number of green pens sold, eg $\frac{212}{"14"+"15"+"24"} \times "24"$ or $\frac{"24"}{"14"+"15"+"24"} \times 212$	
		A1	cao	

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
26	168	P1	for working with ratio to find the amount for C or D eg. $1.5 \times 2 (=3)$ or (A, B, C, D =) 2, 7, 3, 3 oe <b>OR</b> for suitable expressions linking A with C or D, eg. $A = x, C = 1.5x$	
<b>Q28</b>		P1	for “2 + 3 + 3 + 7” (=15) <b>OR</b> adds 4 suitable expressions, eg. “ $x + 3.5x + 1.5x + 1.5x$ ” (= 7.5x)	
		P1	for a complete process to find the amount of money eg. $360 \div “15” \times 7$ <b>OR</b> $360 \div “7.5” \times 3.5$	
		A1	cao	

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
23	612	P1	Alan: for $100 - 32 - 40 (= 28)$ or for finding “28”% of 400 eg $400 \times 0.28 (=112)$	
<b>Q29</b>		P1	Beryl: for $1 - \frac{3}{10} - \frac{1}{10} \left( = \frac{6}{10} = 60\% \right)$ or for finding “ $\frac{6}{10}$ ” $\times 500$ (=300)	
		P1	Charlie: for starting to use the ratio 3 : 4 eg $150 \div 3 (=50)$	
		P1	for complete ratio process eg “ $\frac{150}{3}$ ” $\times 4 (=200)$	
		A1	cao	Answers only (without working) award 0 marks.

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
29	6 : 15 : 20	P1	<p>chooses a multiplier to equate the two fractions in terms of <math>b</math></p> <p>eg <math>\frac{2}{5} \times \frac{3}{3} (= \frac{6}{15})</math> <b>or</b> <math>\frac{3}{4} \times \frac{5}{5} (= \frac{15}{20})</math></p> <p><b>or</b> lists equivalent fractions to <math>\frac{2}{5}</math> up to at least <math>\frac{6}{15}</math>, eg. <math>\frac{2}{5}, \frac{4}{10}, \frac{6}{15}, \dots</math></p> <p><b>or</b> lists equivalent fractions to <math>\frac{3}{4}</math> up to at least <math>\frac{15}{20}</math>, eg. <math>\frac{3}{4}, \frac{6}{8}, \frac{9}{12}, \frac{12}{16}, \frac{15}{20}, \dots</math></p> <p><b>or</b> (<math>a : b =</math>) 2 : 5 <b>and</b> (<math>b : c =</math>) 3 : 4</p> <p><b>or</b> for 6 : 15 or 15 : 20 seen</p>	Need not be written in ratio form
<b>Q30</b>		P1	<p>puts into related terms ready for ratio eg <math>\frac{2}{5} \times \frac{3}{3} = \frac{6}{15}</math> <b>and</b> <math>\frac{3}{4} \times \frac{5}{5} = \frac{15}{20}</math></p> <p><b>or</b> for (<math>a : b =</math>) 6 : 15 <b>and</b> (<math>b : c =</math>) 15 : 20</p> <p><b>or</b> lists equivalent ratios up to a common element for <math>b</math>, eg <math>a : b = 2 : 5, 4 : 10, 6 : \underline{15}</math> <b>and</b> <math>b : c = 3 : 4, 6 : 8, 9 : 12, 12 : 16, \underline{15} : 20</math></p>	
		A1	for 6 : 15 : 20 oe	



Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
20	1.75	P1	for an initial process eg $1.80 \div 12 (=0.15)$ or $1.80 \div 3 (=0.6)$	Accept $1.8 \div 12 = 15$ (p) They can work in pounds or pence
Q31		P1	for a correct second step eg " $0.15$ " $\div 3 (=0.05)$ or " $0.6$ " $\times 7 (=4.2)$ or $3 \div "0.15"(=20)$ or $7 \div 3 (=2.3..)$ or " $0.15$ " $\times 7 (=1.05)$	
		P1	for finding the price of one pen eg " $0.05$ " $\times 7 (=0.35)$ or " $4.2$ " $\div 12 (=0.35)$ or $7 \div "20"(=0.35)$ or " $2.3....$ " $\times "0.15" (=0.35)$ or " $1.05$ " $\div 3 (=0.35)$	
		A1	cao	

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
23    <b>Q32</b>	No  (supported)	P1	for $3000 \div (2 + 3) (= 600)$	Full method to compare   No may be implied by a statement No working, answer only no marks
		P1	for “600” $\times 2 (= 1200)$ <b>or</b> “600” $\times 3 (= 1800)$ <b>or</b> “600” $\div 6 (= 100)$ <b>or</b> “600” $\div 20 (= 30)$	
		P1	for “1200” $\div 6 (= 200)$ <b>or</b> “1800” $\div 20 (= 90)$ <b>or</b> “100” $\times 2 (= 200)$ <b>or</b> “30” $\times 3 (= 90)$	
		P1	for “90” $\div (“200” + “90”) \times 100 (= 31.0\dots)$ oe <b>or</b> “90” $\div (“200” + “90”) (= 0.31\dots)$ <b>or</b> $0.3 \times (“200” + “90”) (= 87)$ oe	
		C1	correct conclusion <b>and</b> fully correct calculations with accurate figure eg No and 87 <b>or</b> No and 31% <b>or</b> No and 0.31	

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
12    <b>Q33</b>	Yes, supported by correct working	P1	for $36 : 48$ oe <b>OR</b> $\frac{36}{84}$ oe <b>or</b> $\frac{48}{84}$ oe	Relating to drama group 1
		P1	for $\frac{4}{7}$ <b>or</b> $3 : 4$ oe (for group 2) <b>OR</b> $(\frac{36}{84} = \frac{3}{7})$ <b>or</b> $(\frac{48}{84} = \frac{4}{7})$  <b>or</b> $84 \times 3 \div 7 (= 36 \text{ boys})$ <b>or</b> $84 \times 4 \div 7 (= 48 \text{ girls})$  <b>or</b> $N \times 3 \div 7$ and $N \times 4 \div 7$	Relating to drama group 2
		A1	for Yes with both ratios $3 : 4$ oe <b>or</b> for a correct pair of fractions and stating they are equivalent.	$N$ can be any number (other than 84) of students in the 2 <sup>nd</sup> group  Both equivalent forms of the ratios (fractions) must be the same “Yes” may be implied from working

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Question	Answer	Mark	Mark scheme	Additional guidance
24	33	P1	for relating 24 to 8 parts, <b>or</b> (1 part =) $24 \div 8 (= 3)$	8 parts = 24
<b>Q34</b>			<b>or</b> $15 - 7 (= 8)$	
			<b>or</b> starts to use a build-up method, eg (8 :) 14 : 30	
		P1	for (15 - 4) <b>and</b> (24 ÷ 8) <b>or</b> $15 \times 3 (= 45)$ <b>and</b> $4 \times 3 (= 12)$ <b>or</b> for 12 (: 21) : 45	
		A1	cao	

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
13 (a)	40	M1	$2 \div (2+3) \times 100 (=40)$ or build up to (and shows) 40:60 oe	Accept any equivalent ratio; award full marks if an acceptable ratio is given and then incorrectly simplified.
<b>Q35</b>			<b>or</b> for sight of $\frac{2}{5}$ oe <b>or</b> $100 \div 5 (=20)$	
		A1	cao	
(b)	20 : 80	M1	$100 - 20 (=80)$ or 80 : 20 oe	
		A1	20 : 80 oe	

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Question	Answer	Mark	Mark scheme	Additional guidance
22	12.85 or 12.86 or 13.5(0)	P1	for $9 + 2 + 1 (=12)$	Award this mark for sight of 4500, 1000 or 500
<b>Q36</b>		P1	for working out how many lots of 175g are needed eg $6000 \div "12" \times 2 \div 175 (=5.71..)$	Process may lead to 5 or 6 instead of 5.71
		P1	for a complete process eg $"5.71..." \times 2.25 (=12.857..)$	"5.71..." (ft) or a figure rounded or truncated eg "6"
		A1	for 12.85 or 12.86 or 13.5(0)	

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
18	60	P1	for $240 \div (5 + 3 + 2) (= 24)$	
<b>Q37</b>		P1	for complete process to find the number of cans of each drink eg $5 \times "24" (= 120)$ and $3 \times "24" (= 72)$ and $2 \times "24" (= 48)$	
		P1	for process to find the number of cans removed eg $"72" \div 2 (= 36)$ and $"48" \div 12 (= 4)$	
		P1	for process to find percentage eg $\frac{"120"}{240 - ("36" + "4")} \times 100$ or $\frac{"120"}{"120" + ("72" - "36") + ("48" - "4")} \times 100$	
		A1	cao	
			<b>Alternative</b>	
		P1	for process to find proportion of lemonade and orange cans removed, eg $3 \times \frac{1}{2} (= 1\frac{1}{2})$ and $2 \times \frac{1}{12} (= \frac{1}{6})$	
		P1	for process to find proportion of lemonade and orange cans remaining, eg $3 - "1\frac{1}{2}" + 2 - "\frac{1}{6}" (= 3\frac{1}{3})$	
		P1	for $5 + "3\frac{1}{3}" (= 8\frac{1}{3})$	
		P1	for process to find percentage eg $(5 \div "8\frac{1}{3}") \times 100$	
		A1	cao	

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
24	(a)(i)	P1	for process to compare ratios, eg $a : b = 2 : 6$ or $b : c = 3 : 2.5$	Could use 3 or any common multiple of 3 and 6
		A1	for $2 : 6 : 5$ oe	
	(ii)	M1	for process to find fraction, eg $\frac{[2]}{[2+6+5]}$ or for $\frac{a}{a+b+c}$	
	A1	for $\frac{2}{13}$ oe or ft (a)(i)		
	(b)	P1	for process to express all numbers in terms of one number, eg $p = 5 \times 2m (= 10m)$ or $m = \frac{n}{2}$  <b>or</b> for $2m = \frac{p}{5}$  <b>or</b> for assigning values in the ratio given, eg $m = 1, n = 2, p = 10$  <b>or</b> for $n : m : p = 2 : 1 : 10$ oe  <b>or</b> $10 : 1$ oe	
		A1	for $1 : 10$ oe	

Q38

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
Q39	30	P1	for $160 \div (3+7) (= 16)$ <b>or</b> $\frac{3}{3+7} (= \frac{3}{10})$	
		P1	for “16” $\times 3 (= 48)$ <b>or</b> “ $\frac{3}{10}$ ” $\times 160 (= 48)$	
		P1	for a correct step using 48 eg “48” $\div 8 (= 6)$ <b>or</b> “48” $\times 25 \div 100 (= 12)$ <b>or</b> (indep) for combining $\frac{1}{8}$ and 25%, eg $\frac{1}{8} + \frac{1}{4} (= \frac{3}{8})$ <b>or</b> “0.125” + “0.25” (= 0.375) or “12.5”(%) + 25(%) (= 37.5(%))	
		P1	for a complete process to find the number of petrol cars, eg “48” – “6” – “12” oe <b>or</b> $(1 - \frac{3}{8}) \times “48”$ oe <b>or</b> $\frac{3}{10} \times (1 - \frac{3}{8}) \times 160$ oe	
		A1	cao  SC B2 for an answer of 100 if P0 scored	Award no marks for a correct answer with no supportive working

Paper: 1MA1/3F				
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24	1.5	P1	for process to develop 3 algebraic expressions, eg. (R =) $n$ , (S =) $2n$ , (T =) $2n - 6$ , oe, at least two must be correct. <b>or</b> for selecting 3 values satisfying the given criteria, eg. (R =) 10, (S =) 20, (T =) 14	Accept 1 : 1.5 etc as answer
<b>Q40</b>		P1	for process to sum 3 algebraic expressions and equating to 54, eg. $n + "2n" + "2n - 6" = 54$ <b>or</b> for finding the correct sum of their values eg. "10" + "20" + "14" = 44	
		P1	for start of process to solve the correct linear equation, eg. $5n = 54 + 6$ ( $n = 12$ ) <b>or</b> for 12, 24, 18	
		P1	for "12" : $2 \times "12" - 6$ oe eg 12 : 18 oe or 18 : 12 linked to T, R	
		A1	for 1.5 or $\frac{3}{2}$ or $1\frac{1}{2}$	