

Paper: 1MA1/2F				
Question	Working	Answer	Mark	Notes
13		Shown	M1	for method started to find comparable amounts, eg 17×46 (=782) or 17×0.46 (=7.82) or 17×35 (=595) or $266 \div 35$ (=7.6) or $26600 \div 35$ (=760)
Q1			M1	for complete method to find comparable figures eg 17×46 (=782) or 17×0.46 (=7.82) AND $266 \div 35$ (=7.6) or $26600 \div 35$ (=760) eg $17 \times 46 \times 35$ (=27370) or $17 \times 0.46 \times 35$ (=273.7)
			C1	Shows correct comparable figures eg 7.82 and 7.6(0), 782 and 760 OR 273.7(0)

Paper: 1MA1/3F				
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4	$5.80 \times 3 + 7.80 = 25.20$	90p or £0.90	M1	for a correct first step from which a complete method could be developed, eg. $5.8(0) \times 3$ (= 17.4(0)) or $24.3(0) - 7.8(0)$ (= 16.5(0))
Q2			M1	for complete method, eg. $7.8(0) + 5.8(0) \times 3 - 24.3(0)$ (= 0.9(0))
		A1	for answer in correct notation with correct units, eg. 90p or £0.90 (accept £0.90p and £0.9)	
				[SC: B1 for an answer of £2.90]
		8.27pm	M1	for using 60 mins = 1 hour in the conversion of 102 minutes, eg. 1 h 42 mins or 1.42 or 1.7 or (60 + 42) mins or $102 - 60$ or $102 \div 60$ or for an answer of 8.27am or 08.27
(b)			A1	for 8.27(pm) oe

Paper: 1MA1/1F				
Question	Working	Answer	Mark	Notes
7		No (supported)	P1 P1 C1	process to work with either cost of 3 sausages e.g. $3 \times 2.30 (=6.9(0))$ or division of a cost by 3 process to work with costs of at least 3 of bread rolls, bread rolls, ketchup, change, sausages e.g. $2 \times 1.50 + 1.60$ or $1.50 + 1.60 + 0.30$, or $10 - 1.50 - 1.60 - 0.30$ or $10 - 1.50 - 1.50 - 1.60$ E. No and (£)5.10 and (£)6.90 No and (£)5.40 and (£)6.90 No and (£)1.70 No and (£)11.50 or (£)11.80 or shows cost of sausages at £2.30 and cost of any 2 other items is greater than (or equal to) £10 NB can work in £ or p throughout. Condone 5.1 etc
Q3				

Paper 1MA1: 2F				
Question	Working	Answer	Mark	Notes
6		268.20	P1 P1 P1 A1	for a process to work out the value of the £1 coins, eg. $495 \div 3 (= 165)$ or $495 \times 0.33...$ or of the 50p coins, eg. $124 \div 2 (= 62)$ for process to find the number of 20p coins, eg. $(495 - 124 - ("165")) (= 206)$ for complete process to find total value using consistent units., eg. $(("165")) + (124 \div 2) + ("206" \times 0.2)$ or $165 + 62 + 41.2$ cao (accept 268.2)
Q4				

Paper: 1MA1/3F				
Question	Working	Answer	Mark	Notes
8 Q5		84	M1 A1	for $(372 - 36) \div 4$ cao

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
8 Q6	Yes with correct figures	P1 P1 P1 C1	begins to work with proportion eg $20 \div 2 (=10)$ or $20 \div 5 (=4)$ or $2.38 \div 2(=1.19)$ or $5.60 \div 5 (=1.12)$ full process to find the cost of 20 pens or 20 folders eg. $20 \div 2 \times 2.38 (=23.8)$ or $20 \div 5 \times 5.60 (=22.4)$ or $2.38 \div 2 \times 20 (=23.8)$ or $5.60 \div 5 \times 20 (=22.4)$ full process to find total price or amount remaining eg “23.8” + “22.4” (=46.2) or $50 - “23.8” - “22.4” (=3.8)$ Yes with correct figures eg 46.2 or 3.8 (left)	Throughout monetary units not required; trailing zeros not needed. Can work in pence throughout ‘Yes’ might be implied from working eg $46.2 < 50$ or a statement that 3.8 is left, but 46.2 alone must also show an answer such as ‘Yes’ (may be written elsewhere). Working leading to 46.2 must be shown for this mark.

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Question	Answer	Mark	Mark scheme	Additional guidance
10	535	P1	for a start to the process eg $1280+640+220 (=2140)$ or $1280\div 4 (=320)$ or $640\div 4 (=160)$ or $220\div 4 (=55)$	Can have arithmetical error as long as the complete processes, in the correct order, are present.
Q7		P1	for a full process to find cost per adult eg " 2140 " $\div 4$ or " 320 " + " 160 " + " 55 "	
		A1	cao SC: B1 for answer of 1495 if P0 scored	

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
8	19.85	P1	for a start to the process eg $30 \div 6 (=5)$ or $30 \div 15 (=2)$ or $30 \div 10 (=3)$ OR $30 \times 37 (=1110)$ OR $82 \div 6 (=13.6 \text{ to } 13.7)$ or $45 \div 15 (=3)$ or $1.25 \div 10 (=0.125)$	Work may be in pence or in pounds Intention to add not necessary eg 410, 3.75 is sufficient, or working leading to these figures Any two correct methods will imply P1P1P1 Correct working for 3 of pens, pencils, rulers and pencil cases with an intention to add, may be in a mixture of money units
Q8		P1	for process to find cost of 30 pens or 30 pencils or 30 rulers eg " 5 " $\times 82 (= 410)$ or " 2 " $\times 45 (= 90)$ or " 3 " $\times 1.25 (= 3.75)$ OR " $13.6..$ " $\times 30 (=409.8 \text{ to } 410)$ or " 3 " $\times 30 (=90)$ or " 0.125 " $\times 30 (=3.75)$	
		P1	for a process to find cost of 2 of 30 pens or 30 pencils or 30 rulers eg any 2 of " 5 " $\times 82 (= 410)$, " 2 " $\times 45 (= 90)$, " 3 " $\times 1.25 (= 3.75)$	
		P1	for adding at least 3 different costs (units may not be consistent) eg " 410 " + " 90 " + " 3.75 " or " 410 " + " 90 " + " 11.10 "	
		A1	cao	

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
10	Shows earnings	M1	for a method to start to work out earnings eg $11.2 \times 8 (= 89.6)$ or $20 - 8 (= 12)$ or $8.4 \times 12 (= 100.8)$	Accept calculations in pence, or £ written in decimal form. Conclusion in figures; ignore written conclusion.
Q9		M1	for a complete method eg $11.2 \times 8 + 8.4 \times (20 - 8)$ or “89.6” + “100.8” or $200 - “89.6” - “100.8” (= 9.6)$	
		C1	Shows earnings eg 190.4(0) or 9.6(0) with fully correct arithmetic	

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6	14	P1	for making a start to the process eg $14 \times 15 (= 210)$ or $14 \times 15 \times 6.50 (= 1365)$ or $1274 \div 6.50 (= 196)$ or $14 \times 15 \times 6.50 - 1274 (= 91)$	
Q10		P1	for a complete process eg $(14 \times 15 \times 6.50 - 1274) \div 6.50$ or $14 \times 15 - (1274 \div 6.50)$	
		A1	cao	

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Question	Answer	Mark	Mark scheme	Additional guidance
11 (a)	2.5(0)	P1	for $13 \times 7.5(0)$ (=97.5(0)) or 5×20 (=100)	
Q11	96	P1	for “100” – “97.5(0)”	
		A1	cao	
		M1	for $\frac{1}{5} \times 120$ (= 24) oe or $\frac{4}{5} \times 120$ oe	
		A1	cao	
11 (b)				

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
6	3000	P1	for a correct step for travel or/and spending money eg 4×150 (=600) or 4×250 (=1000) or $150 + 250$ (=400)	Can be embedded eg $4 \times 7 \times 150$
Q12		P1	for an appropriate step with the hotel price eg 7×50 (=350) or 4×50 (=200)	Can be $4 \times 7 \times 50$
		P1	for combining at least two “costs” for 4 people for 7 nights eg $4 \times 150 + 4 \times 250$ (=1600) or $4 \times 150 + 7 \times 4 \times 50$ (=2000)	Must be correct process for two costs eg not $4 \times 150 \times 7$ but may be 2 correct costs and one incorrect
		A1	cao	

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Question	Answer	Mark	Mark scheme	Additional guidance
18	Accurate figures with supportive working	M1	for a correct first step eg $600 \div 30 (= 20)$ or $120 \div 30 (=4)$ or $600 \times 120 (=72\ 000)$ or $30 \times 30 (=900)$	Could work in m or cm
Q13		M1	for finding an appropriate cost $2.5 \times "20" (=50)$ or $2.5 \times "4" (=10)$ OR number of tiles required $"72\ 000" \div "900" (=80)$ or $"4" \times "20" (=80)$ OR number they can afford $220 \div 2.5 (=88)$	Units must be consistent
		M1	for full method to get figures to compare eg cost to tile whole area eg $"80" \times 2.5$ OR number of tiles they need and number they can afford eg $"72\ 000" \div "900"$ and $220 \div 2.5$	
		A1	for 200 OR 80 and 88 OR 72 000 and 79 200 OR 132 (cm) OR 660 (cm) SC B2 for answer of 60	

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Question	Answer	Mark	Mark scheme	Additional guidance
6	Yes and statement	P1	for a first step towards solution, eg. $2 \times 2.75 (= 5.5)$ or $2.75 + 2.9 (= 5.65)$ OR $10 - 1.5 (= 8.5)$ or $10 - 2.9 (= 7.1)$ or $10 - 2.75 (= 7.25)$	
Q14		P1	for a complete process to find figures to compare eg. $2 \times 2.75 + 2.9 + 1.5 (= 9.90)$ or $10 - (2 \times 2.75 + 2.9) (= 1.60)$ OR $2 \times 2.75 + 2.9 (= 8.40)$ and $10 - 1.5 (= 8.5)$	
		C1	for correct conclusion with accurate figure(s) eg. Yes and (£)1.6(0) or Yes and (£)9.9(0) or Yes and (£)8.4(0) and (£)8.5(0)	

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
8	78	P1	for process to find the number of boxes, eg $200 \div 25 (= 8)$ or to find the cost of each tile, eg $9.75 \div 25 (= 0.39)$	Could work in £ or in pence for P marks
Q15		P1	for complete process, eg “8” $\times 9.75$, “0.39” $\times 200$	
		A1	cao	

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
9 Q16	No with correct figures	P1	for $1.20 + 0.70 + 2.30 + 2.30 (= 6.5(0))$ or for adding 3 correct costs or for 2 correct costs plus change or for $10 - 2$ correct costs	Could work in £ or p for P marks Accept $2.30 + 2.30 (= 4.60)$ as 2 costs Accept absence of “0” in pence column
		P1	for a complete correct method, eg $10 - “6.50”$ or $10 - 1.20 - 0.70 - 2.30 - 2.30 (=3.50)$ or $1.20 + 0.70 + 2.30 + 2.30 + 3.30 (=9.80)$	
		A1	for No with correct figures, eg $3.5(0)$ or $9.8(0)$	

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
8 Q17	2540 shown	M1	for finding the cost of one item eg $2 \times 600 (=1200)$ or $7 \times 120 (=840)$ or $2 \times 250 (=500)$	Ignore written statements as long as the correct figures are shown
		M1	full process eg “1200” + “840” + “500” (=2540) or $2500 - “1200” - “840” - “500” (=±40)$	
		A1	for 2540 or $±40$	

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
10	61	P1	for $300 \div 4.85 (= 61.8\dots)$	This mark may be awarded for build-up methods that get to figures that are before or after 300 Embedded answers get -1 mark.
Q18		A1	for 61.8... or 62	
		A1	61	

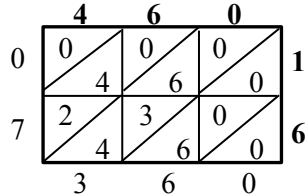
Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
6	60	P3	for complete process to find the total costings eg $23 + 33 + 24.5(0) + 24.5(0) + 15 + 10 + 10 (= 140)$ or for a complete process to find the total money left, eg. $200 - 23 - 33 - 24.5(0) - 24.5(0) - 15 - 10 - 10 (= 60)$, condone one error, eg one omission or one additional cost	All processes may be seen as part of subtractions to find money left Additions may include other elements for process marks, eg. $23 + 33 + 2 \times 24.5(0)$
Q19		(P2)	for process to find the total cost of all theme park tickets, eg $33 + 2 \times 24.5(0) (= 33 + 49 = 82)$ or for process to find the total cost of all meals, eg $15 + 2 \times 10 (= 15 + 20 = 35)$ or for process to find the total cost for the children, eg $2 \times 24.5(0) + 2 \times 10 (= 49 + 20 = 69)$ or for process to find total costs with just one child, eg $23 + 33 + 24.5(0) + 15 + 10 (= 105.5(0))$	
		(P1)	for a start to a correct process, considering at least 2 costs eg $33 + 24.5(0) (= 57.5(0))$ or $2 \times 24.5(0) (= 49)$ or for start to a process to find money left, eg $200 - 23 (= 177)$ or $200 - 33 (= 167)$	
		A1	cao	May be any start to a correct process

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
10 (a)	5	P1	for correct process, eg $23 \div 4 (= 5.75)$ or adds 4s up to at least 20 or repeatedly subtracts 4 up to a remainder of less than 4	
		A1	cao	
(b) Q20	No (supported)	C1	for No with reason Acceptable examples Can buy 11 jars Can buy an extra jar (for the £3 extra) Can buy 10 jars for £20 He will have £3 left Because he can buy more than twice the number of jars Because $23 \div 2 = 11.5$ Not acceptable examples Yes Can buy 10 / Can buy 12	

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
7	49.01	P1	for process to work with the number of miles, eg $12845 - 12468 (= 377)$ or $12845 \times 13 (= 166985)$ or $12468 \times 13 (= 162084)$	This mark can be awarded at any stage in the process
Q21		P1	for process to find the cost, eg $"377" \times 13 (= 4901)$ or $"166985" - "162084" (= 4901)$	
		B1	(indep) for converting from pence to pounds, eg $"4901" \div 100$ or $13 \div 100$ or miles divided by 100 eg $"377" \div 100 (= 3.77)$ or $12845 \div 100 (= 128.45)$ and $12468 \div 100 (= 124.68)$	
		A1	49 or 49.01	

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
7	145.60	P1	for a process to work out the value of the large bars eg $208 \div 4 (=52 \text{ or } 5200)$	units may be ignored for the process marks
Q22		P1	for a process to work out the value of the small bars eg $(208 - "52") \times 60$ or $(1 - \frac{1}{4}) \times 208 \times 60 (=9360 \text{ or } 93.6(0))$ or for 145.6	work could be in pence or £
		A1	for 145.60 cao (must be correct money notation)	

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
7	7	P1	for $20 - 6 (= 14)$ or $20 \div 2 (=10)$ and $6 \div 2 (=3)$	May be seen as a build-up method or by a method of repeated subtraction, listing multiples of 2
Q23		P1	for “14” $\div 2 (= 7)$ or “10” - “3” (= 7)	
		A1	cao	

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
Q24	£73.60 or 7360p	M1	for $89198 - 88738 (= 460)$ OR for showing 89198×16 or 88738×16 OR for showing $(89198 + 88738) \times 16$	May see 0.16 used $89198 \times 16 = 1427168$ $88738 \times 16 = 1419808$ $(89198 + 88738) \times 16 = 2846976$ Accept in any units, correct figures would imply previous mark 4600 $\frac{2760}{7360}$ 
		M1	for showing “460” $\times 16$ OR for showing $89198 \times 16 - 88738 \times 16$	
		M1	(dep on M1) for a complete method of multiplication with relative place value correct including an intention to add all the appropriate elements of the calculation eg, 2 lines of the 1st method, internal numbers of grids, or complete structure shown of partitioning methods.	
		A1	for £73.6(0) or 7360p SC B3 for an answer with digits 736 with incorrect or missing units	

	400	60
10	4000	600
6	2400	360

4000+2400+600+360

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
10	213	P1	for beginning to work with costs eg $1428 - 150 (= 1278)$ or $1428 \div 6 (= 238)$ and $150 \div 6 (= 25)$	
Q25		P1	for complete process to find monthly payment eg " 1278 " $\div 6$ or " 238 " - " 25 "	
		A1	cao	

Paper: 1MA1/2F				
Question	Working	Answer	Mark	Notes
15		988	P1	for a process to find the amount of oil bought in November, eg $750 \div 0.5 (=1500)$ or $75000 \div 50 (=1500)$
Q26			P1	for a process to find the amount of oil ordered in February, eg “1500” + 1000 – 600 (= 1900)
			P1	(indep) for a process to calculate a 4% increase of their amount of oil, eg or “1900” \times 1.04 (=1976) or increase in price eg $1.04 \times 50 (=52$ or 0.52) or $1.04 \times 750 (=780)$
			P1	for a complete process to find the total cost of the calculated amount of oil eg “52” \times “1900” or “780” \times “1900” \div “1500”
			A1	Cao

Paper: 1MA1/3F				
Question	Working	Answer	Mark	Notes
14 (a)	\$ £ 5 2.631... 60 31.578... 196 103.157... 2744 1444.21... 2804 1475.789...	2975.79	P1 P1 P1 P1 A1	for process to find total room cost eg $196 \times 14 (= 2744)$ for process to find total wifi cost eg $5 \times 12 (= 60)$ for using exchange rate appropriately (could be used earlier in the question), eg “2804” \div 1.90 (= (£)1475.789...) or $1500 \times 1.90 (= (\$)2850)$ for process to find the total cost in £, eg “1475.79(..)” + 1500 or in \$, eg “2850” + “2804” (= 5654) 2975 to 2976
(b)		Statement	C1	Statement about the total price rising May comment that flights will not change but the rest will rise

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
13	50	P1	for $45 \times 1.2 (= 54)$ or $34 \times 1.5 (=51)$	
Q29		P1	for $150 - "54" - "51" (= 45)$	
		P1	for $"45" \div 0.9 (=50)$	
		A1	cao	

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
17	Conclusion (supported)	P1	for process to find 1/10 of 500 eg. $500 \div 10 (= 50)$ or $1 - 0.1 (= 0.9)$ oe	
Q30		P1	(dep) for process to reduce 500 by 1/10 eg. $500 - "50"$ or $500 \times "0.9" (= 450)$	
		P1	for process to calculate 20% of [Monday sale price] eg. $"450" \times \frac{20}{100} (= 90)$ oe or for use of $100 - 20 (= 80)$ or $1 - 0.2 (= 0.8)$ in relation to [Monday sale price]	
		P1	(dep on P3) for a fully correct process to find the cost of the TV on Tuesday eg. $"450" - "90" (= 360)$ or $"450" \times "0.8" (= 360)$	
		C1	for conclusion (Yes) supported by correct figures.	eg Yes, the TV will cost 360 Yes, he will have 40 over left

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Question	Answer	Mark	Mark scheme	Additional guidance
19	No (supported)	P1	for a process to find Rachel's share, eg $600 \div 5 \times 2 (= 240)$	<p>Note This mark, if awarded for 200, may be the only mark awarded</p> <p>"No" may be implied by a statement Answer only with no working, no marks</p>
Q31		P1	for process to find Samina's share eg $(600 - "240") \div 4 (= 90)$	
		P1	for a process to find either of Tom's share, eg $600 - "240" - "90" (= 270)$ or $3 \times "90" (=270)$ or $600 \div 3 (= 200)$ for comparison purposes	
		C1	for "No" and accurate figures eg 270 and 200 or 270 and 70 (difference)	

Paper: 1MA1/3F					
Question	Answer	Mark	Mark scheme		Additional guidance
15	Yes (supported)	P1	for finding the cost of 1 kg of carrots eg $1.74 \div 3 (= 0.58)$	for finding the cost of 1 kg of onions eg $2.(00) \div 4 (= 0.5)$	for all P marks can work in pence or in £
Q32		P1	for isolating the cost of 2.5 kg of onions eg $2.36 - (2 \times "0.58") (= 1.2(0))$	for finding the cost of 2.5 kg of onions eg $2.5 \times "0.5" (= 1.25)$	
		P1	for the cost of 1 kg of onions or 0.5 kg of onions, eg $"1.20" \div 2.5 (= 0.48)$ or $"1.20" \div 5 (= 0.24)$ or for $4 \div 2.5 (= 1.6)$	for finding the cost of 2 kg of carrots eg $2.36 - "1.25" (= 1.11)$	
		P1	for the cost of 4 kg of onions, eg $4 \times "0.48"$ or $8 \times "0.24" (= 1.92)$ or for $"1.6" \times "1.2(0)"$	for finding the cost of 3 kg of carrots eg $"1.11" \div 2 \times 3 (= 1.665)$ <i>for comparison with 1.74</i>	
		C1	Yes with correct figures shown eg 192 or 1.92 or "has 8p left" or 166.5		
					Allow comparison of mixed units eg 192 with £2

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Question	Answer	Mark	Mark scheme		Additional guidance
Q33	1.19	P1	process to find number of small bags that can be filled, eg $[3\text{kg}] \div 150 (= 20)$ oe		[3kg] must be 3 and zeros only eg 300 Build up methods are allowed to imply process Cost per small bag given as £0.88 will imply P1P1
		P1	for starting a process to work with percentage for cost of box, eg $17.60 \times \frac{35}{100} (= 6.16)$ or $100 + 35 (= 135)$	works with starting cost per small bag, $17.60 \div "20"$	
		P1	for full process to work with percentage increase, eg $17.60 \times \frac{135}{100} (= 23.76)$	begins process to work with percentage for a small bag, eg $"0.88" \times \frac{35}{100} (= 0.308)$	
		P1	full process to find selling price for small bag, eg $"23.76" \div "20" (= 1.188)$	full process to find selling price for small bag, $"0.88" \times \frac{135}{100} (= 1.188)$ oe	
		A1	cao		