

FM201/01					
No	Process	Answer	Mark	Notes	
1	(a)	Read from graph	Answer given on answer line or shown on graph	1	Answer in range 10.9-11.1
	(b)	Read from graph	Answer given on answer line or shown on graph	1	Answer in range 3.6-3.7
2	Uses the formula for an appropriate calculation	Substitutes the numbers	1 or	eg $170+150-12.5 \div 2$	
		Shows an understanding of the operations required & the order of processing	2 or	eg $"307.5" \div 2$ or $\frac{307.5}{2}$ eg adds 170, 150; take 12.5; divide 2	
		States correct answer	3	153.75; accept 154, 153.8, 153.7	
3	Uses information relating to body weight M1	One of: $\times 2.6, \times 7, \times 27$	1 or	eg $\times 2.6, \times 7, \times 27$	
		Two of: $\times 2.6, \times 7, \times 27$	2 or	eg $2.6 \times 7, 27 \times 7, 2.6 \times 27, 18.2, 189, 70.2$	
		$\times 2.6 \times 7 \times 27$	3	eg 491.4	
	Uses information relating to scoops M2	One of: $\times 4.5, \div 900$	1 or	eg $\times 0.005, \div 200; 2.457$	
		Both of $\times 4.5, \div 900$	2		
	Considers number of tins and works out the cost M3	States 2(..) or rounds up/uses accurate value as average, or sight of 3, or exactly three 200s shown	1 or	eg 2.(457) OR sight of 3 tins	
		Rounds correctly to 3 tins NB: not from working which is clearly incorrect.	2	Number of tins given as 3 on the answer line. "3" can be awarded 2 marks if 3 shown in working and no ambiguity on the answer line.	
Works out the cost M4	States correct cost	1	£23.91		

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4	(a)	Calculates total claim	One of 30×27p or £4.80+£3.40	1 or	eg digits 81(0..) or 820
		Both of 30×27p, £4.80+£3.40 with column addition attempted	2 or	eg digits 1388(0) or three figures added	
		Total claim stated in correct money notation	3	£138.80, £138.80p	
	(b)	Adjusts claim	Considers 30×(29-27) OR 30×29 (=£8.70) then some recalculation	1 or	Needs complete method shown. eg sight of 30×(29-27), 2×30
			States £0.60 or 60p or £0.60p	2	Clearly identified as the answer to the problem.
5	Considers criteria	One of: 15min interval; 9.00am start; 5 min between each; no overlap in rooms.	1 or	eg for at least 1 person Assume the 5 min interval if interviews are 20 min apart.	
		Two of: 15min interval; 9.00am start; 5 min between each; no overlap in rooms.	2 or	Minimum evidence for intervals is that they must be demonstrated for 5 rooms or 6 people (ie at least 5 consecutive, different times).	
		All of: 15min interval; 9.00am start; 5 min between each; no overlap in rooms.	3		
	M1	Calculates times consistently, consider presentation, makes efficient use of time, order people and rooms.	Times given for at least 3 people or rooms, not necessarily linked clearly, or associates at least 3 people with 3 rooms correctly.	1 or	eg links two of times, people, rooms.
			Times & rooms given for all people, all linked clearly, or associates all people with rooms correctly.	2 or	Not necessarily well organised.
M2		Times and rooms given, results presented clearly, by making efficient use of time	3	eg as a listing, a table, etc. with each separate person & times linked, all interviews start at 9.00 with necessary breaks, finish by 11.00	

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6	Ensures same time period is used, for all amounts and makes a comparison using their figures. M1	States salary in same time period or makes a comparison.	1 or	Weeks, months or year, or attempts comparison. *Accept 48 weeks in a year, and references to holiday pay
		States salary in same time period and makes a comparison using their figures, arriving at their maximum.	2	
	For Compu (Sales Agent) and Digital (Sales Adviser): calculates salary. M2	Shows correct method for C OR D: £1800+1% of £22000 or £20000×1.2oe or £2020pm or £24240pa or £2000pm or £24000	1 or	Per year: C £24240 D £24000 Per month: C £2020 D £2000 Per week: C £505/466 D £500/461
		Shows correct method for C AND D: £1800+1% of £22000; £22000×1.2oe; £2020pm or £24240pa; £2000pm or £24000	2 or	
		Shows £24240pa and £24000pa oe* (eg pm): no apparent errors in either calculations.	3	
	For Able (Sales Assistant) and Beta (Sales Consultant): attempts calculation to equalise the time	For A/B: Partial calculation to convert to same time period OR evidence of 30 ×15 (=450) oe	1 or	Per year: A 23000 B 21600/23400 Per month: A 1916.... B 1800 Per wk: A 479/442 B 450
For A/B: Partial calculation to convert to same time period AND evidence of 30 ×15 (=450) oe		2 or		
	period of these two amounts. Arrives at final conclusion / comparison for all amounts. M3	Amounts from same time period compared; correct max amount* and job clearly stated: Compu (Sales Agent)	3	Statement of best with figures from A, B,C, D compared (same time period) and Compu (Sales Agent) job deducted as the best paid.

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7	Uses hotel information to make comparisons	Uses one from: 14 days or 2 adults/2children or 2-15 Aug, any hotel	1 or	eg by evidenced in use of figures from tables (839×2)+449+549 (805×2)+319+375 (819×2)+249+449 NB: 3 marks for sight of one correct total. eg 2676, 2304, 2336
		Uses two from: 14 days, or 2 adults/2children, or 2-15 Aug, any hotel	2 or	
		Uses all three from: 14 days or 2 adults/2children, or 2-15 Aug, any hotel.	3 or	
		M1 Obtains all three correct totals.	4	
	Considers other pricing factors	Gives at least one of £50, £65, £180	1 or	Insurance: Family £50 Tax Taxis: £65 Early booking: £180
		M2 Gives all three of £50, £65, £180	2	
	Finds lowest total price	Compares their 3 totals and states their cheapest hotel.	1 or	FP: 2676+50+65-180=2611 D: 2304+50+65-180 = 2239 R: 2336+50+65-180=2271
M3 States lowest price as £2239		2		

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8	Makes comparisons, draws conclusions.	Makes simple comparison(s) with a recommendation based on at least one aspect.	1 or	<p>Comparisons should include all 3 regions.</p> <p>A simple comparison could be making simple deductions without calculation or diagram, perhaps using max/min figures from the tables.</p> <p>A more complex comparison will involve using the results of calculations (eg means), comparing more than one set of calculations or graphs, across all 3 regions.</p>																	
		Makes a comparison that draws on a calculation/graph/diagram, and results in a recommendation.	2 or																		
		Makes more complex comparisons, using more than one feature from a calculation/ graph/diagram and results in a recommendation with reasons.	3																		
	Selects and uses appropriate mathematical calculations.	M2	Choose valid/appropriate figures for comparison.	1 or	<p>eg means:</p> <table border="1"> <thead> <tr> <th>Means</th> <th>la Luz</th> <th>Almeria</th> <th>Blanca</th> </tr> </thead> <tbody> <tr> <td>Temp</td> <td>24.57</td> <td>25.85</td> <td>26.71</td> </tr> <tr> <td>Hrs</td> <td>9.5</td> <td>9.36</td> <td>8.93</td> </tr> <tr> <td>Rainfall</td> <td>2.11</td> <td>1.39</td> <td>2.74</td> </tr> </tbody> </table> <p>Condone minor errors that are not statistically significant.</p>	Means	la Luz	Almeria	Blanca	Temp	24.57	25.85	26.71	Hrs	9.5	9.36	8.93	Rainfall	2.11	1.39	2.74
			Means	la Luz		Almeria	Blanca														
			Temp	24.57		25.85	26.71														
	Hrs	9.5	9.36	8.93																	
	Rainfall	2.11	1.39	2.74																	
	Simple calculation (eg totals) of temp, hrs or rainfall for comparison.	2 or																			
Statistical calculation (eg mean): should enable comparison across all 3 resorts and all 3 aspects.	3																				
Selects and uses appropriate mathematical graphs or charts	M3	Chooses a valid/appropriate graph or diagram of at least one aspect	1 or	For 2 marks the graph or diagram needs to be correctly presented.																	
		Presents at least one aspect as a correctly drawn graph or diagram, comparing the 3 regions either as a single, or as multiple graphs.	2																		

Total for paper: 48 marks