

Q1. (2020)

Q	Answer	Mark	Comments
10	Alternative method 1 Total % for A after 6 tests – total % for B after 5 tests		
	60×5 or 300 or 52×5 or 260	M1	oe
	$\frac{24}{50} \times 100$ or 0.48×100 or 48	M1	oe 348 implies M1M1
	$60 \times 5 + \frac{24}{50} \times 100 - 52 \times 5$ or $300 + 48 - 260$ or 88	M1dep	oe eg 348 – 260 dep on M1M1
	44	A1	allow $\frac{44}{50}$
	Alternative method 2 Total score for A after 6 tests – total score for B after 5 tests		
	$\frac{60}{100} \times 50$ or 30	M1	oe allow $\frac{30}{50}$ implied by 150 or 174
	$\frac{52}{100} \times 50$ or 26	M1	oe allow $\frac{26}{50}$ implied by 130
	$\frac{60}{100} \times 50 \times 5 + 24 - \frac{52}{100} \times 50 \times 5$ or $150 + 24 - 130$	M1dep	oe eg 174 – 130 dep on M1M1
	44	A1	allow $\frac{44}{50}$

Q2. (2020)

Q	Answer	Mark	Comments
17(a)	[82.5, 83.5]	B1	
	Additional Guidance		

Q3. (2021)

Q	Answer	Mark	Comments
7	Alternative method 1		
	102 × 68.5 or 6987 or 85 × 72.4 or 6154 or 13 141	M1	values may be seen by the table
	$\frac{102 \times 68.5 + 85 \times 72.4}{102 + 85}$ or $\frac{13\,141}{187}$ or 70.2(7...) or 70.3	M1dep	oe
	70.2(7...) and Yes or 70.3 and Yes	A1	
	Alternative method 2		
	102 × 68.5 or 6987 or 85 × 72.4 or 6154 or 13 141	M1	values may be seen by the table
	(102 + 85) × 70 or 187 × 70 or 13 090	M1	oe
	13 141 and 13 090 and Yes	A1	
	Additional Guidance		
	Yes may be implied eg 70.27 > 70	M1M1A1	
	M1 may be awarded for correct work, with no or incorrect answer, even if this is seen amongst multiple attempts		

Q4. (2022)

Q	Answer	Mark	Comments
8	Alternative method 1		
	90×5 or 450 or $\frac{72+83+88+97+x}{5}$ or $\frac{340+x}{5}$	M1	oe any letter or symbol
	$90 \times 5 - 72 - 83 - 88 - 97$ or $90 \times 5 - 340$ or $72 + 83 + 88 + 97 + x = 90 \times 5$ or $340 + x = 90 \times 5$	M1dep	oe any letter or symbol equations must have fraction eliminated
	110	A1	
	Alternative method 2		
	Trial of any value with mean correctly evaluated	M1	also allow if given to the next or previous integer eg1 trial of 100 $\frac{72+83+88+97+100}{5} = 88$ eg2 trial of 78 $\frac{340+78}{5} = 83$ (or 84 or 83.6) ignore trials with mean not evaluated or incorrectly evaluated
	Trial of 110 with mean evaluated to 90	M1dep	eg $\frac{72+83+88+97+110}{5} = 90$ this mark implies M1M1
	110	A1	

Mark scheme and Additional Guidance continue on the next page