

Mean, Median, Mode and Range

November 2023 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
1	6	B1	cao	

June 2022 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
3	3	B1	cao	

November 2024 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
7 (a)	12	M1	for method to find mean, eg $(14 + 10 + 10 + 13 + 15 + 9 + 15 + 10) \div 8$ or $96 \div 8$	Allow one error or omission but must divide by 8 Condone eg 9, 15 but not $9 + 15$ Accept any mark near to $\frac{1}{4}$ if the intention is clear; do not accept if additional marks are shown
		A1	cao	
(b)	6	M1	for $15 - 9$ or $9 - 15$ or 9 to 15	
		A1	cao	
(c)	cross at $\frac{1}{4}$	B1	for cross (or mark) at $\frac{1}{4}$	

November 2022 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
8 (a)	102	B1	cao	
8 (b)	82	M1 A1	for a method of extracting the correct 4 numbers from the table, adding all 4 numbers and then dividing by 4 eg $(143+121+45+19) \div 4$ or “328” $\div 4$ cao	

June 2023 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
12	7	M1	for $(13 + 4 + 5 + 9 + 3 + 8) \div 6$ or "42" $\div 6$	Condone missing brackets for M1
		A1	cao	

June 2022 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
14 (a)	7	B1	cao	
	5	B1	cao	
(c)		C2 (C1	ft for correct comparison of both medians and ranges, eg. median of boys shoe sizes is greater than the median of the girls shoe sizes and the range of the boys shoe sizes is greater than the range of the girls shoe sizes. ft for a correct comparison of either medians or ranges)	Simply quoting values for median, range is insufficient; they must be compared.

June 2023 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
17	540	<p>P1</p> <p>P1</p> <p>P1</p> <p>A1</p>	<p>for start of process, eg $350 + 250 (= 600)$ or $3 \times 380 (= 1140)$ or $380 - 350 (= 30)$ or $380 - 250 (= 130)$</p> <p>for process to work with mean and number of seats in at least one cinema, eg $350 + 250 (= 600)$ and $3 \times 380 (= 1140)$ or “1140” – 350 (= 790) or “1140” – 250 (= 890) or for an equation in x, eg $350 + 250 + x = 3 \times 380$ or $380 - 350 (= 30)$ and $380 - 250 (= 130)$</p> <p>for process to find number of seats in cinema C, eg “1140” – “600” or for $(x =)$ “1140” – 350 – 250 380 + “30” + “130”</p> <p>cao</p>	<p>350 + 250 + another number scores no marks eg 350 + 250 + 150 or 350 + 250 + 380</p>

June 2020 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
20	4	P1	for start to process, eg $65 + 100 + 3 \times 5 + 1 \times 20 (= 200)$ or $3 \times 80 (= 240)$	May be part of an algebraic statement eg $65 + 100 + 35 + 10x$
		P1	for $65 + 100 + 3 \times 5 + 1 \times 20 (= 200)$ and $3 \times 80 (= 240)$ or “240” – 100 – 65 (=75)	
		P1	for process to find value of £10 notes in Carl’s wallet, eg “240” – “200” (= 40) or for “75” – $3 \times 5 - 1 \times 20 (=40)$	
		A1	cao	

November 2023 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
21 (a)	3.5	P1 P1 A1	for a process to find the total length of the 5 sticks, eg $4.2 \times 5 (= 21)$ or for forming an equation, eg $\frac{7 + 4x}{5} = 4.2$ for complete process to find the mean eg $(“21” - 7) \div 4$ oe	
(b)	Explanation	C1	for explanation Acceptable examples it reduced the mean my answer will be less the answer will be 1 it will be 2.5 less Not acceptable examples the mean will be more my answer will change it would decrease the lengths of the other sticks	If figures are given as part of the answer they must be correct, but can allow ft.

November 2022 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
28	158	P1	for a first step in the process eg $50 \times 167.6 (=8380)$ or $20 \times 182 (=3640)$	
		P1	for a complete process eg $(50 \times 167.6 - 20 \times 182) \div 30$ or $\frac{8380 - 3640}{30}$ or $4740 \div 30$	
		A1	cao	