
GCSE Mathematics

Mean, Median and Mode

Mark Scheme - Foundation Tier | Grades 1-3

M = method mark, A = accuracy mark (dependent on the preceding M mark), B = independent mark.

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Edexcel-style questions

Q1 Grade 1 Edexcel style

Total: 1

Part	Mark scheme	Marks
(a)	mode = 7	B1

Q2 Grade 1 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	order the data: 2, 4, 5, 7, 9	M1
(a)	median = 5	A1

Q3 Grade 2 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	sum = $4 + 8 + 6 + 10 + 2 = 30$	M1
(a)	mean = $30 \div 5 = 6$	A1

Q4 Grade 3 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	total = $5 \times 8 = 40$	M1
(a)	sum of known values = $6 + 9 + 7 + 10 = 32$	M1
(a)	fifth number = $40 - 32 = 8$	A1

Q5 Grade 3 Edexcel style

Total: 4

Part	Mark scheme	Marks
(a)	Team A mean = $(12 + 15 + 9 + 18 + 21) \div 5 = 15$	M1
(a)	Team B mean = $(14 + 16 + 10 + 20 + 10) \div 5 = 14$	M1
(a)	$15 > 14$	M1
(a)	Team A had the higher mean score	A1

AQA-style questions

Q6 Grade 1 AQA style

Total: 1

Part	Mark scheme	Marks
(a)	mode = 4	B1

Q7 Grade 1 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	order the data: 1, 3, 6, 8	M1
(a)	median = $(3 + 6) \div 2 = 4.5$	A1

Q8 Grade 2 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	sum = $12 + 15 + 9 + 18 + 21 + 15 = 90$	M1
(a)	mean = $90 \div 6 = 15$	A1

Q9 Grade 3 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	total = $6 \times 12 = 72$	M1
(a)	sum of known values = $10 + 14 + 11 + 9 + 15 = 59$	M1
(a)	sixth number = $72 - 59 = 13$	A1

Q10 Grade 3 AQA style

Total: 4

Part	Mark scheme	Marks
(a)	Class A mean = $(65 + 72 + 58 + 80 + 70) \div 5 = 69$	M1
(a)	Class B mean = $(68 + 75 + 62 + 78 + 67) \div 5 = 70$	M1
(a)	$70 > 69$	M1
(a)	Class B had the higher mean score	A1

OCR-style questions

Q11 Grade 1 OCR style

Total: 1

Part	Mark scheme	Marks
(a)	mode = 15	B1

Q12 Grade 1 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	order the data: 7, 7, 9, 11, 12, 15, 20	M1
(a)	median = 11	A1

Q13 Grade 2 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	sum = $7 + 3 + 8 + 5 + 2 + 9 + 1 = 35$	M1
(a)	mean = $35 \div 7 = 5$	A1

Q14 Grade 3 OCR style

Total: 3

Part	Mark scheme	Marks
(a)	total = $4 \times 15 = 60$	M1
(a)	sum of known values = $12 + 18 + 20 = 50$	M1
(a)	fourth number = $60 - 50 = 10$	A1

Q15 Grade 3 OCR style

Total: 4

Part	Mark scheme	Marks
(a)	Machine A mean = $(102 + 98 + 105 + 99 + 101) \div 5 = 101$	M1
(a)	Machine B mean = $(100 + 103 + 97 + 102 + 98) \div 5 = 100$	M1
(a)	$101 > 100$	M1
(a)	Machine A had the higher mean weight	A1

Teachably-style questions

Q16 Grade 1 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	mode = 5	B1

Q17 Grade 1 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	order the data: 5, 9, 14, 17, 22, 30	M1
(a)	median = $(14 + 17) \div 2 = 15.5$	A1

Q18 Grade 2 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	sum = $20 + 16 + 24 + 18 + 12 + 30 = 120$	M1
(a)	mean = $120 \div 6 = 20$	A1

Q19 Grade 3 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	total = $7 \times 10 = 70$	M1
(a)	sum of known values = $8 + 12 + 9 + 11 + 7 + 13 = 60$	M1
(a)	seventh number = $70 - 60 = 10$	A1

Q20 Grade 3 Teachably style

Total: 4

Part	Mark scheme	Marks
(a)	Runner A mean = $(42 + 45 + 40 + 41) \div 4 = 42$	M1
(a)	Runner B mean = $(44 + 43 + 46 + 39) \div 4 = 43$	M1
(a)	$42 < 43$	M1
(a)	Runner A had the lower mean time (faster on average)	A1

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