
GCSE Mathematics

Stem and Leaf Diagrams

Mark Scheme - Foundation Tier | Grades 3-4

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

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Edexcel-style questions

Q1 Grade 3 Edexcel style

Total: 1

Part	Mark scheme	Marks
(a)	5 people	B1

Q2 Grade 3 Edexcel style

Total: 1

Part	Mark scheme	Marks
(a)	mode = 22	B1

Q3 Grade 3 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	9 values in total, so the median is the 5th value	M1
(a)	median = 23	A1

Q4 Grade 4 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	largest = 39, smallest = 13	M1
(a)	range = $39 - 13 = 26$	A1

Q5 Grade 4 Edexcel style

Total: 4

Part	Mark scheme	Marks
(a)	Class A: 9 values, median = 5th value = 69	M1
(a)	Class B: 9 values, median = 5th value = 72	M1
(a)	$72 > 69$	M1
(a)	Class B has the higher median score	A1

AQA-style questions

Q6 Grade 3 AQA style

Total: 1

Part	Mark scheme	Marks
(a)	3 students	B1

Q7 Grade 3 AQA style

Total: 1

Part	Mark scheme	Marks
(a)	mode = 63	B1

Q8 Grade 3 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	9 values in total, so the median is the 5th value	M1
(a)	median = 69	A1

Q9 Grade 4 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	largest = 77, smallest = 45	M1
(a)	range = $77 - 45 = 32$	A1

Q10 Grade 4 AQA style

Total: 4

Part	Mark scheme	Marks
(a)	Team A: 7 values, median = 4th value = 44	M1
(a)	Team B: 7 values, median = 4th value = 47	M1
(a)	$44 < 47$	M1
(a)	Team A has the faster (lower) median time	A1

OCR-style questions

Q11 Grade 3 OCR style

Total: 1

Part	Mark scheme	Marks
(a)	3 people	B1

Q12 Grade 3 OCR style

Total: 1

Part	Mark scheme	Marks
(a)	mode = 12	B1

Q13 Grade 3 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	9 values in total, so the median is the 5th value	M1
(a)	median = 10	A1

Q14 Grade 4 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	largest = 31, smallest = 2	M1
(a)	range = $31 - 2 = 29$	A1

Q15 Grade 4 OCR style

Total: 4

Part	Mark scheme	Marks
(a)	Shop A: 9 values, median = 5th value = 38	M1
(a)	Shop B: 9 values, median = 5th value = 41	M1
(a)	$41 > 38$	M1
(a)	Shop B has the higher median sales	A1

Teachably-style questions

Q16 Grade 3 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	5 runners	B1

Q17 Grade 3 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	mode = 44	B1

Q18 Grade 3 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	9 values in total, so the median is the 5th value	M1
(a)	median = 41	A1

Q19 Grade 4 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	largest = 53, smallest = 24	M1
(a)	range = $53 - 24 = 29$	A1

Q20 Grade 4 Teachably style

Total: 4

Part	Mark scheme	Marks
(a)	Region A: 9 values, median = 5th value = 24	M1
(a)	Region B: 9 values, median = 5th value = 27	M1
(a)	$27 > 24$	M1
(a)	Region B has the higher median temperature	A1

END OF PAPER

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