

GCSE Mathematics

F

Averages from Frequency Tables

Foundation Tier | Grades 4-5

Total Marks	Time	Questions
60	60 min	20

Instructions:

- Do not use a calculator when you see: 
- Answer all questions in the spaces provided.
- Show all your working - marks are awarded for method as well as final answers.
- Cross through any work you do not want to be marked.
- Check your answers if you have time at the end.

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Edexcel-style questions

Q1 

Grade 4

Edexcel style

The table shows the number of pets owned by 27 households. Find the mode.

Pets	0	1	2	3
Frequency	5	12	7	3

Answer _____

teachably

[1 mark]

Q2 

Grade 4

Edexcel style

The table shows the number of pets owned by 27 households. Find the median.

Pets	0	1	2	3
Frequency	5	12	7	3

Answer _____

teachably

[3 marks]

Q3

Grade 5

Edexcel style

The table shows the number of goals scored by a team in 22 matches. Calculate the mean number of goals per match.

Goals	0	1	2	3	4
Frequency	4	8	6	3	1

Answer _____

teachably

[3 marks]**Q4**

Grade 5

Edexcel style

The mean number of pets per household is 1.5. The table shows the number of pets, where a is unknown. Find the value of a .

Pets	0	1	2	3
Frequency	4	6	a	3

Answer _____

teachably

[4 marks]

Q5



Grade 5

Edexcel style

The table shows the number of absences per term for students in Class A and Class B. Compare the mean number of absences.

Absences	0	1	2	3
Class A frequency	10	6	3	1
Class B frequency	6	8	4	2

Answer _____

AQA-style questions

Q6 

Grade 4 AQA style

The table shows the number of siblings for 30 students. Find the mode.

Siblings	0	1	2	3	4
Frequency	6	10	8	4	2

Answer _____

teachably [1 mark]

Q7 

Grade 4 AQA style

The table shows the number of siblings for 30 students. Find the median.

Siblings	0	1	2	3	4
Frequency	6	10	8	4	2

Answer _____

teachably [3 marks]

Q8

Grade 5

AQA style

The table shows the number of texts sent per hour by 20 students. Calculate the mean number of texts per hour.

Texts	1	2	3	4	5
Frequency	5	7	4	3	1

Answer _____

teachably

[3 marks]**Q9**

Grade 5

AQA style

The mean number of goals scored per match is 1.3. The table shows the number of goals, where a is unknown. Find the value of a .

Goals	0	1	2	3
Frequency	5	6	a	2

Answer _____

teachably

[4 marks]

Q10

Grade 5

AQA style

The table shows the number of complaints per day at Shop A and Shop B. Compare the mean number of complaints.

Complaints	0	1	2	3
Shop A frequency	8	7	3	2
Shop B frequency	5	6	6	3

Answer _____

OCR-style questions

Q11 

Grade 4

OCR style

The table shows the shoe size of 31 students. Find the mode.

Shoe size	4	5	6	7	8
Frequency	3	9	11	6	2

Answer _____

teachably

[1 mark]

Q12 

Grade 4

OCR style

The table shows the shoe size of 31 students. Find the median.

Shoe size	4	5	6	7	8
Frequency	3	9	11	6	2

Answer _____

teachably

[3 marks]

Q13

Grade 5

OCR style

The table shows the number of books read per month by 20 students. Calculate the mean number of books read.

Books	0	1	2	3
Frequency	6	10	3	1

Answer _____

teachably

[3 marks]

Q14

Grade 5

OCR style

The mean number of siblings is 1.6. The table shows the number of siblings, where a is unknown. Find the value of a .

Siblings	0	1	2	3
Frequency	3	5	a	1

Answer _____

teachably

[4 marks]

Q15

Grade 5

OCR style

The table shows the number of goals scored per match by Team A and Team B. Compare the mean number of goals.

Goals	0	1	2	3
Team A frequency	3	7	6	4
Team B frequency	5	8	5	2

Answer _____

Teachably-style questions

Q16

Grade 4

Teachably style

The table shows the number of cars owned by 30 households. Find the mode.

Cars	0	1	2	3
Frequency	4	15	9	2

Answer _____

teachably

[1 mark]

Q17

Grade 4

Teachably style

The table shows the number of cars owned by 30 households. Find the median.

Cars	0	1	2	3
Frequency	4	15	9	2

Answer _____

teachably

[3 marks]

Q18

Grade 5

Teachably style

The table shows the number of errors per page found by 20 proofreaders. Calculate the mean number of errors per page.

Errors	0	1	2	3	4
Frequency	8	7	3	1	1

Answer _____

teachably

[3 marks]

Q19

Grade 5

Teachably style

The mean number of pets per household is 1.4. The table shows the number of pets, where a is unknown. Find the value of a .

Pets	0	1	2	3
Frequency	3	8	a	2

Answer _____

teachably

[4 marks]

Q20

Grade 5

Teachably style

The table shows the number of defects per batch for Machine A and Machine B. Compare the mean number of defects.

Defects	0	1	2	3
Machine A frequency	9	6	4	1
Machine B frequency	6	7	5	2

Answer _____

teachably

[4 marks]

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