

GCSE Mathematics

F

Range and Spread

Foundation Tier | Grades 2-4

Total Marks	Time	Questions
56	56 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 2

Edexcel style

Find the range of this list of numbers: 3, 7, 5, 12, 2, 9.

Answer _____

teachably

[2 marks]**Q2** 

Grade 3

Edexcel style

The table shows the number of siblings for 20 students. Find the range.

Siblings	0	1	2	3	4
Frequency	4	8	5	2	1

Answer _____

teachably

[2 marks]**Q3** 

Grade 3

Edexcel style

The range of the heights of 5 plants (in cm) is 24. Four of the heights are 18, 30, 22, 15. The fifth plant is the tallest. Find its height.

Answer _____

teachably

[3 marks]

Q4

Grade 4

Edexcel style

Machine A's output weights (g): 98, 102, 99, 101, 100. Machine B's output weights (g): 90, 105, 95, 110, 100. Compare the consistency of the two machines using the range.

Answer _____

teachably

[3 marks]**Q5**

Grade 4

Edexcel style

Two athletes' long jump distances (m) in 5 attempts: Athlete A: 5.2, 5.5, 5.1, 5.4, 5.3. Athlete B: 4.8, 5.9, 4.5, 6.0, 5.3. Find the mean and range for each athlete, then state which athlete is more consistent.

Answer _____

teachably

[4 marks]

AQA-style questions**Q6** 

Grade 2

AQA style

Find the range of this list of numbers: 15, 8, 22, 11, 19.

Answer

teachably

[2 marks]**Q7** 

Grade 3

AQA style

The table shows the number of pets owned by 20 students. Find the range.

Pets	0	1	2	3
Frequency	6	9	4	1

Answer

teachably

[2 marks]**Q8** 

Grade 3

AQA style

The range of the weights of 6 parcels (in kg) is 18. Five of the weights are 20, 22, 25, 23, 21. The sixth parcel is the lightest. Find its weight.

Answer

teachably

[3 marks]

Q9

Grade 4

AQA style

Runner A's times (s) in 5 races: 42, 44, 43, 45, 41. Runner B's times (s) in 5 races: 38, 48, 40, 50, 44. Compare the consistency of the two runners using the range.

Answer _____

teachably

[3 marks]**Q10**

Grade 4

AQA style

Two students' quiz scores in 5 quizzes: Student A: 14, 16, 15, 17, 13. Student B: 10, 20, 12, 22, 11. Find the mean and range for each student, then state which student is more consistent.

Answer _____

teachably

[4 marks]

OCR-style questions**Q11** 

Grade 2

OCR style

Find the range of this list of numbers: 6, 14, 2, 9, 17, 4.

Answer _____

teachably

[2 marks]**Q12** 

Grade 3

OCR style

The table shows the scores of 20 players in a game. Find the range.

Score	1	2	3	4	5
Frequency	2	5	8	3	2

Answer _____

teachably

[2 marks]**Q13** 

Grade 3

OCR style

The range of the times (in seconds) for 5 sprinters is 3.5. Four of the times are 12.1, 11.8, 12.4, 11.9. The fifth sprinter is the slowest (has the largest time). Find their time.

Answer _____

teachably

[3 marks]

Q14

Grade 4

OCR style

Class A's test scores: 65, 70, 68, 72, 66. Class B's test scores: 50, 85, 60, 90, 70. Compare the consistency of the two classes using the range.

Answer _____

teachably

[3 marks]**Q15**

Grade 4

OCR style

Two vending machines' daily sales (number of items): Machine A: 45, 50, 48, 52, 45. Machine B: 30, 65, 40, 70, 35. Find the mean and range for each machine, then state which machine is more consistent.

Answer _____

teachably

[4 marks]

Teachably-style questions

Q16 

Grade 2 Teachably style

Find the range of this list of numbers: 25, 18, 32, 10, 28.

Answer _____

teachably [2 marks]

Q17 

Grade 3 Teachably style

The table shows the ages of 22 students in a class. Find the range.

Age	12	13	14	15
Frequency	5	8	6	3

Answer _____

teachably [2 marks]

Q18 

Grade 3 Teachably style

The range of the scores of 6 players is 25. Five of the scores are 60, 55, 68, 62, 58. The sixth player has the lowest score. Find their score.

Answer _____

teachably [3 marks]

Q19

Grade 4

Teachably style

Shop A's daily sales (£): 320, 340, 310, 335, 325. Shop B's daily sales (£): 200, 450, 280, 400, 300. Compare the consistency of the two shops using the range.

Answer _____

teachably

[3 marks]

Q20

Grade 4

Teachably style

Two bakeries' daily bread sales (loaves): Bakery A: 80, 85, 82, 88, 85. Bakery B: 60, 100, 70, 110, 80. Find the mean and range for each bakery, then state which bakery is more consistent.

Answer _____

teachably

[4 marks]

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