



THIRD SPACE  
LEARNING

# GCSE Exam Questions

Mean, Median, Mode and  
Range | Statistics

## GCSE Exam Questions: Mean, Median, Mode and Range

1) Here is a list of numbers:

**19    13    17    18    17**

(a) Write down the mode.

-----  
(1)

(b) Work out the range.

-----  
(2)

(c) Work out the mean.

-----  
(2)

**(5 marks)**

2) Here is a list of numbers:

**1.9, 1.2, 1.3, 1.5, 1.4, 1.6, 1.3**

(a) Write down the mode.

-----  
(1)

(b) Work out the range.

-----  
(2)

(c) Work out the mean.

-----  
(2)

(d) Work out the mean. Give your answer correct to 3 significant figures.

-----  
(2)

**(7 marks)**

## GCSE Exam Questions: Mean, Median, Mode and Range

- 3) Seven people entered a dancing competition. Here are the points that each of the first 6 people scored:

**12    16    19    15    9    8**

- (a) Work out the range for these 6 people.

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(2)

- (b) Work out the median for these 6 people.

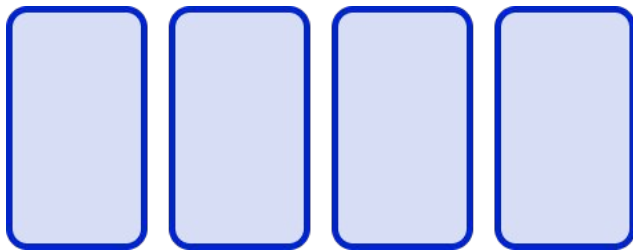
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(2)

The mean of the 7 people is 14.

- (c) Work out how many points the seventh person scored.

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(3)  
**(7 marks)**

- 4) There are four cards with some numbers on them.



The mode of the cards is 6.

The mean of the cards is 7.

The range of the cards is 8.

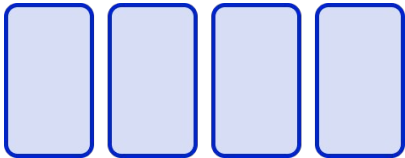
Calculate the four numbers on the cards.

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**(3 marks)**

## GCSE Exam Questions: Mean, Median, Mode and Range Answers

	Question	Answer	Marks
<b>1)</b>	Here is a list of numbers: <b>19 13 17 18 17</b>		
<b>(a)</b>	Write down the mode.	<b>(a)</b> 17	<b>(1)</b>
<b>(b)</b>	Work out the range.	<b>(b)</b> $19 - 13$ 6	<b>(1)</b> <b>(1)</b>
<b>(c)</b>	Work out the mean.	<b>(c)</b> $(19 + 13 + 17 + 18 + 17) \div 5$ $= 16.8$	<b>(1)</b> <b>(1)</b>
<b>2)</b>	Here is a list of numbers: <b>1.9, 1.2, 1.3, 1.5, 1.4, 1.6, 1.3</b>		
<b>(a)</b>	Write down the mode.	<b>(a)</b> 1.3	<b>(1)</b>
<b>(b)</b>	Work out the range.	<b>(b)</b> $1.9 - 1.2$ 0.7	<b>(1)</b> <b>(1)</b>
<b>(c)</b>	Work out the median.	<b>(c)</b> 1.2 1.3 1.3 1.4 1.5 1.6 1.9 1.4	<b>(1)</b> <b>(1)</b>
<b>(d)</b>	Work out the mean. Give your answer correct to 3 significant figures.	<b>(d)</b> $(1.2 + 1.3 + 1.3 + 1.4 + 1.5 + 1.6 + 1.9) \div 7$ $= 1.457... = 1.46$ (3 sf)	<b>(1)</b> <b>(1)</b>
<b>3) (a)</b>	Seven people entered a dancing competition. Here are the points that each of the first 6 people scored: <b>12 16 19 15 9 8</b>  Work out the range for these 6 people.	<b>(a)</b> $19 - 8$ 11	<b>(1)</b> <b>(1)</b>
<b>(b)</b>	Work out the median for these 6 people.	<b>(b)</b> 8 9 12 15 16 19 $\frac{12 + 15}{2}$ $= 13.5$	<b>(1)</b> <b>(1)</b>
<b>(c)</b>	The mean of the 7 people is 14. Work out how many points the seventh person scored	<b>(c)</b> $(7 \times 14) = 98$ $98 - (12 + 16 + 19 + 15 + 9 + 8)$ 19	<b>(1)</b> <b>(1)</b> <b>(1)</b>

## GCSE Exam Questions: Mean, Median, Mode and Range Answers

	Question	Answer	Marks
4)	<p>There are four cards with some numbers on them.</p>  <p>The mode of the cards is 6. The mean of the cards is 7. The range of the cards is 8.</p> <p>Calculate the four numbers on the cards.</p>	<p>Two cards are 6 and 6</p> $7 \times 4 - (6 + 6) = 16$ <p>The second 2 cards must total 16</p> <p>The last two cards are 4 and 12</p>	<p>(1)</p> <p>(1)</p> <p>(1)</p>

# Where to go next?

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