New Maths GCSE: S4 - Comparing Data using Mean and Range

Name:.. Date:..

Here are the summary of two classes' scores in a maths exam

Class A		Class B	
Mean Score	12	Mean Score	6
Range of Scores	18	Range of Scores	9

Which class performed best overall?

A Class A – because the mean score was higher

B Class B – because the mean score was lower

C Class A – because the range of scores was higher

D Class B – because the range of scores was lower

Correct Answer: A B C D

Explanation:

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Here are the summary of two classes' scores in a maths exam

Class A		Class B	
Mean Score	13	Mean Score	10
Range of Scores	4	Range of Scores	9

Which class performed the most consistent?

A Class A – because the mean score was higher

B Class B – because the mean score was lower

C Class A – because the range of scores was lower

D Class B – because the range of scores was higher

Correct Answer: A B C D

Explanation:

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Here are the summary of two classes' scores in a maths exam

Class A		Class B	
Mean Score	10	Mean Score	20
Range of Scores	12	Range of Scores	4

Which class performed worst overall?

A Class A – because the mean score was lower

B Class B – because the mean score was higher

C Class A – because the range of scores was higher

D Class B – because the range of scores was lower

Correct Answer: A B C D

Explanation:

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Here are the summary of two classes' scores in a maths exam

Class A		Class B	
Mean Score	75	Mean Score	55
Range of Scores	20	Range of Scores	30

Which class performed the least consistent?

A	Class A – because the mean score was higher	**B**	Class B – because the mean score was lower
C	Class A – because the range of scores was lower	**D**	Class B – because the range of scores was higher

Correct Answer: A B C D

Explanation:

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Here are the summary of two classes' scores in a maths exam

Class A		Class B	
Number of Students	30	Number of Students	8
Mean Score	75	Mean Score	55
Range of Scores	20	Range of Scores	30

Whose results are likely to be the most reliable?

A	Class A – because their mean score is higher	**B**	Class A – because their range of scores is lower
C	Class A – because there are more students in the class	**D**	Class B – because there are fewer students in the class

Correct Answer: A B C D

Explanation:

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