N5 Maths: Data Sets

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Formulae	$s = \sqrt{\frac{\sum(x-\bar{x})^2}{n-1}}$	$s = \sqrt{\frac{\sum x^2 - \frac{(\sum x)^2}{n}}{n-1}}$

Q1 Calculate the mean of each of these data sets:

a) 4, 9, 15, 8, 14

b) 8, 3, 12, 14, 21, 8

c) 24, 28, 32, 29, 36, 37

d) 74, 68, 71, 54, 49, 72, 78, 66

Q2 Find the median of each of these data sets:

a) 10, 7, 11, 9, 13

b) 4, 9, 12, 10, 5, 9, 7

c) 32, 37, 35, 39

d) 45, 49, 43, 48, 50, 41

Q3 Find the interquartile range (IQR) of each of these data sets:

a) 24, 26, 28, 25, 22, 32, 21

b) 4, 2, 1, 3, 7, 8, 5, 6, 9, 3

c) 18, 23, 19, 14, 20, 16

d) 56, 53, 59, 61, 59, 54, 62, 65

Q4 Calculate the mean and standard deviation of each of these data sets:

a) 3, 9, 7, 6, 5

b) 14, 17, 12, 13

c) 4, 7, 9, 8, 6, 4, 5, 3, 8, 6

d) 19, 14, 24, 21, 26, 27, 28, 25

Q5 A set of 6 numbers has a sum of 38. The sum of the numbers' squares is 286.
Calculate the standard deviation of this data set.

Q6 Brian and Ross each play nine holes of golf.
Brian's score sheet is: 8, 3, 5, 6, 9, 4, 4, 7, 8.
Ross's score sheet is: 7, 9, 6, 7, 7, 6, 7, 6, 8.
Calculate each player's mean and standard deviation, and make two valid comparisons.

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