|  | $s=\sqrt{\frac{\sum(x-\bar{x})^{2}}{n-1}}$ | $s=\sqrt{\frac{\sum x^{2}-\frac{\left(\sum x\right)^{2}}{n}}{n-1}}$ |
| :---: | :---: | :---: |

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.

