

1

Find the mean and median of the data set.

Niles scored 60, 64, 62, 61, 63, and 80 on his 6 geography tests.

The mean is 65

The median is 62.5



5	60
6	64
7	62
8	61
9	63
10	80

## Find the mean.

Divide the sum by the numbers of data values.

$$\frac{390}{6} = 65$$

## Find the median.

Rewrite the values in increasing order.

Find the mean of the middle two values.

$$\frac{62+63}{2} = 62.5$$

=MEDIAN(G5:G10)

=AVERAGE(G5:G10)

Find the median, range, and interguartile range for the given data set.

21, 31, 26, 25, 28, 26

## The median is 26

Order the data values. The median is the middle value in 21, 25, 26, 26, 28, 31 a set when the values are arranged in numerical order.

Median = 
$$\frac{26 + 26}{2} = 26$$

## The range is (b).



The range is the difference between the greatest and the least data values. High-Low

Range = 
$$31 - 21 = 10$$

The interguartile range (IQR) of a data set is the difference between the third and first quartiles. It represents the range of the middle half of the data.

$$Q_1 = 25$$
 and  $Q_3 = 28$ 

$$IQR = Q_3 - Q_1$$

$$= 28 - 25$$

$$=$$
 3

Find the standard deviation of 42, 55, 46, 45, 48, 46. If necessary, round your answer to the nearest tenth.

Step 1: Find the mean.

mean = 
$$\frac{42 + 45 + 46 + 46 + 48 + 55}{6} = \frac{282}{6} = 47^*$$
 where  $S = \frac{282}{6} = 47^*$  where  $S = \frac{2}{5}$  means  $\frac{2}{6} = \frac{2}{6} = \frac{2}{6}$ 

\*add up all the numbers, then divide by how many numbers there are.

Step 2: Calculate the Difference and Square.

Data Valves - Means		=	
42-47	=	-5	
55-47	=	8	
46-47	=	-1	
45-47	=	-2	
48-47	=	1	
46-47	=	-1	

Square each 2		
25		
64		
1		
4		
1		
1		

Step 3: Find the mean again, this of Square values.

mean = 
$$\frac{25+4+1+1+1+64}{6} = \frac{96}{6} = 16$$

Step 4: Take the Square Root.

$$\sqrt{16} = 4$$

If necessary, round your answer to the nearest tenth.

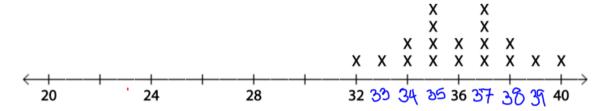


2.719

The digit in this place tells us whether to round up or down

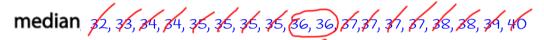
If it's 5 or more, round UP.

The data plot shown represents the age of the members of a jogging club. 10



\*Write each number with x on it (including repeated values).

Find the median, range, and interquartile range of the data. Is each statement True?



A. The median age is 36.





range  $H_{10}h_{-}h_{00} = 40_{-3}\lambda = 8$ 

B. The range of ages is 8.

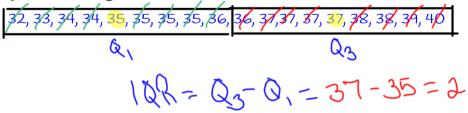




No

No

interquartile range



C. The interquartile range is 4.



