

Math Sheet

Name _____ Score _____ Teacher _____ Date _____

Mean, Median, Mode and Range Reference

Order the data before finding its center. Compute every answer from the observations shown.

Ordering numbers

Sort from least to greatest. Negative numbers farther left on a number line are smaller.

-8, -3, -3, 2, 7

Arithmetic mean

Add every observation and divide by the number of observations.

2, 4, 4, 6: $16 \div 4 = 4$

Odd median

After sorting an odd-sized dataset, choose its one central observation.

-7, -2, 4, 6, 9: median 4

Even median

Average the two central observations. Their average may be negative or a half.

-8, -6, -3, -3: median $(-6 + -3) \div 2 = -4.5$

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One mode

A mode is a repeated observation with the greatest frequency.

2, 2, 5, 7: mode 2

Several modes

List every repeated observation tied for greatest frequency, in numerical order.

1, 1, 3, 3, 6, 6, 9, 9, 12: modes 1, 3, 6, 9

No mode

If every observation occurs once, there is no mode.

-4, -1, 3, 8: no mode

Range

Subtract the minimum from the maximum. Range is never negative.

-9, -4, 2, 7: $7 - (-9) = 16$