MEAN, MEDIAN, MODE, RANGE PUZZLES

Use the clues to find the missing cards.

HELPFUL EXAMPLE

| 3 | 4 | 6 | 7 | ? |

If you calculate the mean for the first four numbers you will get $3 + 4 + 6 + 7 = 20$, and 20 divided 4 equals 5.

The unknown card will increase the mean by 2.

The clue tells us the new number will increase the mean by 2 which will change the mean to 7.

All you need to do is multiply the new mean by the total number of cards, $7 \times 5 = 35$.

How can we change 20 to 35? The card must equal 15.

Now your turn.

| 10 | 11 | 10 | 9 | 14 | 6 |

The mean will be 10 and the range will be 8.

| 3 | 10 | 7 | 1 | 3 | 5 |

The median will be 4, the range 9, and the mode will be 3.

| 16 | 1 | 13 | 14 | 1 | 3 |

The unknown cards will decrease the mean by 3, and the mode will be 1.

| 7 | 5 | 12 | 10 | 12 | 9 | 8 |

mean = 9
range = 7
median = 9
mode = 12

| 17 | 13 | 11 | 19 | 22 | 22 | 36 |

The unknown cards will increase the mean by 5, and the mode is 22.