

# Mean, Median, Mode and Range Puzzles

Use the clues to find the missing cards.

Example:

2   4   8   10   ?

The unknown card will increase the mean by 4

Solution:

If you calculate the mean for the four given numbers, you will get,  
 $2 + 4 + 8 + 10 = 24$ .  
 $\frac{24}{4} = 6$ , which is the current mean.

The clue tells us the new mean to be  
 $6 + 4 = 10$

All you need to do is multiply the new mean by the total number of cards,  
 $10 \times 5 = 50$

To change the mean from 6 to 10 the unknown number must be,  
 $50 - 24 = 26$

Ans:

2   4   8   10   26

1

3   6   8   9   ?

The unknown card will increase the mean by 3

2

3   10   7   1   ?   ?

The median will be 4, range 9, mode 3

3

18   18   63   ?   ?   ?

Mean = 49.2, Mode = 18, 63  
Median = 63, Range = 66

4

25   46   62   ?   ?

Mean = 61.2, Median = 62,  
Range = 72