

MEAN, MEDIAN, MODE, RANGE PUZZLES

ANSWERS

Use the clues to find the missing cards.

HELPFUL EXAMPLE

3

4

6

7

?

The unknown card will increase the mean by 2.

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 clue tell 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.