

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.

8

12

4

3

6

14

The median will be 7 and the range 11.

19

7

9

16

9

12

The mean will be 12 and the mode 9.

11

12

10

11

30

16

The unknown cards will increase the mean by 4, and the range will be 20.

3

8

7

14

6

1

3

The unknown cards will decrease the mean by 2, the median will be 6, and the range 13.

6

4

2

5

6

9

3

mean = 5
range = 7
median = 5
mode = 6