Mean, Median, Mode and Range

ANSWERS

1

Find the mean, median, mode and range.

6	9	4	9	3	10	8

In order

3	4	6	8	9	9	10

Mean 49 ÷ 7 = 7

Median 8

Mode 9

Range 10 – 3 = 7

2

Find the mean, median, mode and range.

12	5	8	15	5	11	7

In order

5	5	7	8	11	12	15

Mean 63 ÷ 7 = 9

Median 8

Mode 5

Range 15 – 5 = 10

3

Find the mean, median, mode and range.

4	9	6	4	9	10

In order

4	4	6	9	9	10

Mean 42 ÷ 6 = 7

Median 7.5

Mode 4 and 9

Range 10 – 4 = 6

4

Find the mean, median, mode and range.

13	7	20	11	4	16	9	8

In order

4	7	8	9	11	13	16	20

Mean 88 ÷ 8 = 11

Median 10

Mode no mode

Range 20 – 4 = 16

5

Nadia counted the emails she got each day for 9 days. Find the mean, median, mode and range.

12, 7, 15, 9, 7, 20, 11, 7, 11

in order: 7, 7, 7, 9, 11, 11, 12, 15, 20

Mean 99 ÷ 9 = 11

Median 11

Mode 7

Range 20 – 7 = 13

6

Four plants grew 3 cm, 8 cm, 6 cm and 5 cm in one week. Find the mean growth and the range.

3 + 8 + 6 + 5 = 22

Mean 22 ÷ 4 = 5.5 cm

Range 8 – 3 = 5 cm

7

Amara's mean score in 5 games was 9. Her first four scores were 7, 12, 5 and 10. What did she score in the fifth game?

total 9 × 5 = 45

7 + 12 + 5 + 10 = 34

Answer 45 – 34 = 11

8

Mia says the median of 8, 3, 10, 5, 2 is 10, because 10 is in the middle.
Explain her mistake, then find the median.

she didn't put them in order first

2, 3, 5, 8, 10

Median 5

Mean, Median, Mode and Range *further practice*

ANSWERS

9

Tomasz read this many pages of his book each day for 9 days. Find the mean, median, mode and range.

24, 18, 30, 18, 25, 21, 18, 32, 21

in order: 18, 18, 18, 21, 21, 24, 25, 30, 32

Mean *207 ÷ 9 = 23*

Median *21*

Mode *18*

Range *32 – 18 = 14*

10

8 students each solved a puzzle. Their times, in seconds, are below. Find the median and the range.

46, 38, 52, 41, 60, 36, 49, 43

halfway between 43 and 46

Median *44.5 seconds*

Range *60 – 36 = 24 seconds*

11

The numbers 15, 9, 12, 20 and x have a range of 14. x is the smallest number. Find x.

20 is the biggest, so 20 – x = 14

Answer *x = 6*

12

Zainab's mean score in 5 spelling tests was 8. After a sixth test, her mean score was 9. What did she score in the sixth test?

5 × 8 = 40 and 6 × 9 = 54

Answer *54 – 40 = 14*

13

Ruby and Josh each played 5 basketball games. Find the mean and range of each player's points. Who is more consistent?

Ruby: 12, 15, 14, 13, 16
Josh: 20, 8, 15, 19, 8

	Mean	Range
Ruby	*14*	*4*
Josh	*14*	*12*

Answer *Ruby, smaller range*

14

These six numbers are in order. Their median is 9. Find x.

3, 5, x, 11, 12, 16

9 is halfway between x and 11

Answer *x = 7*

15

Write down five whole numbers with a mode of 4, a median of 5 and a range of 6.

two 4s, 5 in the middle, biggest
4 + 6 = 10

Answer *e.g. 4, 4, 5, 7, 10*

16

Sam says the mean of 3, 3, 3, 3, 8 is 3, because 3 appears most often. Is he right? Explain.

No: 3 is the mode.

20 ÷ 5 = 4

Mean *4*