

Interleaved: mean, median and mode

1
Find the mean of 4, 7, 9, 3, 12

Which method? ☒ Mean ☐ Median ☐ Mode
add them: 35, then $\div 5$

Answer 7

2
Find the median of 8, 2, 11, 5, 6, 9

Which method? ☐ Mean ☒ Median ☐ Mode
in order: 2, 5, 6, 8, 9, 11; halfway between 6 and 8

Answer 7

3
The table shows the shoe sizes of some pupils. Find the modal shoe size.

Shoe size	4	5	6	7
Frequency	3	7	5	2

Which method? ☐ Mean ☐ Median ☒ Mode
the highest frequency, 7, is size 5

Answer 5

4
The table shows the goals scored in 20 matches. Find the mean number of goals.

Goals	0	1	2	3
Frequency	4	6	7	3

Which method? ☐ Mean ☒ Median ☐ Mode
 $0 + 6 + 14 + 9 = 29$ goals, $29 \div 20$

Answer 1.45

5
The table shows how many pets 19 pupils have. Find the median.

Pets	0	1	2	3
Frequency	5	8	4	2

Which method? ☐ Mean ☒ Median ☐ Mode
the 10th value: 5 have 0, the next 8 have 1

Answer 1

6
A shop sold jackets in these sizes: S, M, M, L, M, S, L, XL, M. It wants to order more of the most popular size. Which average should it use, and what is it?

Which method? ☐ Mean ☐ Median ☒ Mode
sizes are not numbers; M appears 4 times

Answer the mode, M

7
The mean of four numbers is 6. Three of them are 3, 5 and 8. Find the fourth.

Which method? ☐ Mean ☐ Median ☐ Mode
the total is $4 \times 6 = 24$; $24 - 16$

Answer 8

8
Find the median height: 152 cm, 147 cm, 160 cm, 155 cm, 149 cm, 158 cm, 151 cm

Which method? ☐ Mean ☒ Median ☐ Mode
in order, the 4th of 7

Answer 152 cm

Interleaved: mean, median and mode *further practice*

9
The table shows how many books 20 pupils read this term. Find the mean.

Books	1	2	3	4
Frequency	3	5	8	4

$3 + 10 + 24 + 16 = 53$, $53 \div 20$

Answer 2.65

10
The table shows the scores in a quiz out of 5. Find the mode.

Score	2	3	4	5
Frequency	4	6	11	3

the highest frequency is 11

Answer 4

11
Four parcels weigh 3.2 kg, 4.5 kg, 2.8 kg and 5.1 kg. Find the median weight.

in order: 2.8, 3.2, 4.5, 5.1; halfway between 3.2 and 4.5

Answer 3.85 kg

12
A class of 10 has a mean test score of 14. A class of 15 has a mean of 18. Find the mean score of all 25 pupils.

totals 140 and 270, $410 \div 25$

Answer 16.4

13
The table shows how many brothers and sisters 25 pupils have. Find the median.

Siblings	0	1	2	3
Frequency	6	9	7	3

the 13th value: 6 have 0, the next 9 have 1

Answer 1

14
A survey of favourite fruit gave apple 7, banana 12, grape 9. Which average can be found, and what is it?

fruit are not numbers, so there is no mean or median

Answer the mode, banana

15
The table shows the hours 20 people spent online yesterday. Find the mean.

Hours	1	2	3	4
Frequency	2	7	6	5

$2 + 14 + 18 + 20 = 54$, $54 \div 20$

Answer 2.7

16
Ella says the median of this table is 3, because 3 is in the middle of 1, 2, 3, 4, 5. Explain her mistake and find the median.

Value	1	2	3	4	5
Frequency	9	6	3	1	1

the median is the middle of the 20 values, the 10th and 11th, which are both 2

Answer 2