



Task: Finding the Mean and Range in a set of data.

Read the following slides to support you with the questions that follow

MEAN

To find out the mean you add all of the numbers then divide by the amount of numbers you have added together.

E.G. $2+6+9+35+4=56$ $56\div 5=11.2$

Range

- Range is how far from biggest to smallest.
- Put the numbers in order
- Take the smallest number from the largest.

Class shoe sizes: 3, 5, 5, 6, 4, 3, 2, 1, 5, 6

Put in order: 1, 2, 3, 3, 4, 5, 5, 5, 6, 6

Subtract smallest from largest: $6 - 1 = 5$

Range: 5

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1. A dentist keeps a record of the number of patients seen on five days.

Patients seen by dentist	
Monday	16
Tuesday	18
Wednesday	20
Thursday	16
Friday	15

Which calculation gives the average (mean) number of patients seen each day by the dentist on these five days?

A $\frac{16+18+20+16+15}{5}$

B $\frac{15+16+20+18+16}{7}$

C $\frac{5}{16+18+20+16+15}$

D $\frac{7}{15+16+20+18+16}$

- 2 What is the range of the number of patients seen by the dentist?

A 1

B 5

C 16

D 20

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3. One member of a club keeps a record of the time he spends swimming each day in one week.

Number of minutes spent swimming

Mon	Tues	Wed	Thurs	Fri	Sat	Sun
41	44	41	45	42	40	41

What is the average (mean) amount of time he spends swimming each day?

- A 40 min
- B 41 min
- C 42 min
- D 45 min

4. The table shows the mileage for each of the 5 days of car hire.

Mileage	
Mon	29
Tues	38
Wed	44
Thurs	38
Fri	56

What is the average (mean) daily mileage over these 5 days?

- A 27km
- B 38km
- C 41km
- D 44km

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Questions 5 and 6 are about a cricket team.
The team played 10 matches last season.
The table shows their scores.

Match 1	Match 2	Match 3	Match 4	Match 5	Match 6	Match 7	Match 8	Match 9	Match 10	Total
220	130	80	110	100	100	130	90	110	130	1200

5 What is the average (mean) of the cricket team's scores?

- A 100
- B 110
- C 120
- D 130

6 What is the range of the cricket team's scores?

- A 80
- B 90
- C 130
- D 140



7 The table shows the daily temperature at 12 noon for one week in May.

Temperatures at 12 noon

Day	Temperature in °C
Monday	11
Tuesday	13
Wednesday	17
Thursday	18
Friday	17
Saturday	15
Sunday	14

What is the average (mean) temperature for the week?

- A 11°C
- B 15°C
- C 17°C
- D 18°C

8 A workman collects the following amounts of paving stones from a builders' merchant.

Size (in feet)	Number required
3 × 2	42
2 × 2	28
2 × 1.5	20
4 × 2	10

The average (mean) number of paving stones is

- A 24
- B 25
- C 28
- D 32

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Questions 9 and 10 are about weather records.

9 This table shows the daily hours of sunshine in Rome each month for six months.

Daily Hours of Sunshine						
Month of the year	Oct	Nov	Dec	Jan	Feb	Mar
Hours of sunshine	10	9	8	7	6	8

The range of daily hours of sunshine in the table is

- A 2
- B 4
- C 8
- D 10

10 The average (mean) number of daily hours of sunshine in the table is

- A 4
- B 6
- C 8
- D 9

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Questions 11 to 12 are about a youth club collecting for charity.

The youth club has a charity box.

The table shows how much was collected over 10 days.

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1	£5	£8	£2	£9	£8
Week 2	£12	£5	£9	£7	£5

11. What is the average (mean) amount collected per day?

- A £2
- B £5
- C £7
- D £10

12. What is the range of the amounts collected?

- A £0
- B £2
- C £10
- D £12

13 A supermarket sells six different brands of soup. The prices per can are

20p	39p	29p	30p	29p	33p
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What is the average (mean) price per can?

- A 19p
- B 20p
- C 29p
- D 30p

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Questions 14 to 15 use this information.

This table shows the shop's takings for 6 months

Month	1	2	3	4	5	6
Takings(s)	17 000	18 000	19 000	18 000	11 000	13 000

14 What is the average (mean) monthly takings for the shop during the 6 months?

- A £11 000
- B £15 000
- C £16 000
- D £18 000

15 What is the range of monthly takings for the shop during the 6 months?

- A £4 000
- B £8 000
- C £11 000
- D £19 000

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- 16 The table shows the total of the electricity bills for a household, for the four periods (to the nearest £).

Period	Total bill
1st	£122
2nd	£118
3rd	£134
4th	£126

What is the average (mean) electricity bill for a period?

- A £118
- B £124
- C £125
- D £134

Questions 17 to 18 are about running a car.

A car owner keeps a record over 5 days of the number of miles she travels each day.

Monday	Tuesday	Wednesday	Thursday	Friday
20	23	29	20	28

- 17 What is the average (mean) number of miles she travels each day?

- A 20
- B 23
- C 24
- D 29

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18 What is the range of the number of miles she travels each day?

- A 8
- B 9
- C 20
- D 28

19 A health club member keeps a record of the number of minutes she spends each day on the exercise bicycle during one week.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
15	15	0	12	15	0	13

What is the average (mean) amount of time she spends each day on the bicycle over the seven days in that week?

- A 10 minutes
- B 13 minutes
- C 14 minutes
- D 15 minutes



Questions 20 and 21 are about the price of cough medicine.

20 A carer buys some cough medicine.

The shop sells six brands.

Cough medicine prices					
£3.00	£2.64	£2.68	£3.20	£2.68	£3.80

What is the range of the prices?

- A £0.80
- B £1.16
- C £2.64
- D £2.68

21 What is the average (mean) price of these bottles of cough medicine?

- A £2.64
- B £2.68
- C £3.00
- D £3.80



22 The table shows the time a plumber spends estimating the costs of five jobs.

Times spent estimating costs (minutes)				
45	50	35	75	45

The average (mean) time he spends estimating costs is

- A 35 minutes
- B 40 minutes
- C 45 minutes
- D 50 minutes