

TARGET To calculate the mean of a set of data.

The mean or average of a set of data is the total divided by the number of items in the set.

Example

The number of hours worked
by a plumber each day.

11 8 5 9 6 10 7 9 4 6

Total hours 75 hours

No. of days 10

Mean 7.5 hours ($75 \div 10$)

A

Find the mean of each set of data.

- 1 The ages of the five children in a family.

5 5 8 12 15

- 2 The shoe sizes worn by eight women.

3 5 3 4 6 3 5 3

- 3 The marks out of 10 of nine children in a spelling test.

7 10 10 7 9

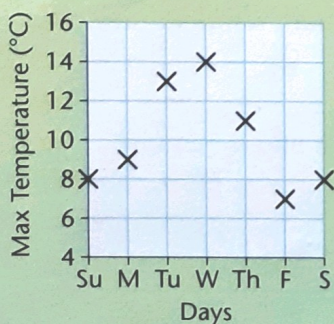
9 8 2 10

- 4 The number of people entering a shop each minute.

8 4 2 7 8 3

6 3 8 4 5 2

- 5 The daily maximum temperature in one week in November.



B

Find the mean of each set of data.

- 1 The estimated heights in metres of a rock face made by the climbers.

90 80 100 150 70

100 110 90 80 100

- 2 The ages of the eleven players in a football team.

26 24 17 20 26 28

19 30 25 17 21

- 3 The number of buses stopping each hour at a bus stop.

1 3 5 5 4 2 3 4

5 4 2 3 2 1 1

- 4 The number of people sitting at each table of a cafe.

4 1 0 2 1 4 1

1 4 3 4 1 0

- 5 The daily maximum temperatures in °C for one week in May.

20 16 19 14

13 18 19

C

Find the mean of each set of data.

- 1 The heights in metres of the nine members of a family.

1.3 1.6 1.2 1.9

1.1 0.9 1.7 1.2 1.7

- 2 The number of passengers getting off a bus at each of its first eight stops.

0 1 3 1 4 1 4 6

- 3 The average daily maximum temperature in °C for each month of a year.

5 6 9 12 15 17

19 18 14 13 9 7

- 4 The daily maximum temperatures in °C for one week in February.

4 5 1 -2 -1 4 3

- 5 The number of people living in each of the 100 houses in a road.

People	3	4	5	6
Houses	20	35	30	15

TARGET To interpret the mean of a set of data.

The mean is the total divided by the number of items in the set.

Examples

6 classes
174 children
Find the mean class size.
Answer 29 ($174 \div 6$)

4 classes
Mean class size 26
How many children?
Answer 104 (26×4)

Mean class size 30
210 children
How many classes?
Answer 7 ($210 \div 30$)

A

Find the mean for each set of data.

- 1 Football matches 8
Total goals 40
Mean goals per game?
- 2 Dogs 3
Total weight 21 kg
Mean weight per dog?
- 3 Restaurant tables 10
Diners 25
Mean diners per table?
- 4 Library users 12
Books borrowed 36
Mean books per person?
- 5 Swimming sessions 5
Total lengths 100
- 6 Darts 3
Total score 51
- 7 Dice 2
Total score 7
- 8 Tests 4
Total marks 320%

B

Find the mean.

- 1 Flights 5
Total distance 12 000 km
- 2 Cars 100
Passengers 280
- 3 Boxes of apples 8
Total apples 1000

Find the total.

- 4 Car journeys 12
Mean distance 45 miles
- 5 Buses 2
Mean passengers 56.5
- 6 Trees 3
Mean number of apples 269

Find the number of items.

- 7 Distance cycled (km)
Total 257 Mean 25.7
- 8 Train passengers
Total 720 Mean 180
- 9 Bags of apples
Total 150 Mean 7.5

C

Find the mean.

- 1 Adults 4
Total weight 263.2 kg
- 2 Pages read 15
Time 36 minutes
- 3 Shop customers 20
Total takings £355

Find the total.

- 4 Cans 500
Mean weight 435 g
- 5 Pages read 26
Mean time 3 mins. 30 secs.
- 6 Customers 12
Mean takings £4.60

Find the number of items.

- 7 Weight of fish
Total 1.8 kg
Mean 225 g
- 8 Time per page (minutes)
Total 57 Mean 1.9
- 9 Takings per customer
Total £2.85
Mean 57p