



# What units of time do you know?



How many

1. minutes in 3 hours
2. seconds in 5 minutes
3. years in 4 decades
4. hours in a week
5. days in a fortnight
6. days in Jan, Feb and March
7. hours in  $\frac{3}{4}$  of a day
8. minutes in a day
9. days in 5 years (1 leap year)
10. seconds in a day?



The number of letters delivered in the post each morning.

M	Tu	W	Th	F	Sat
4	7	6	3	8	2

Total of letters = 30.

Number of deliveries = 6.

Mean number of letters in each delivery

$$5 = (30 \div 6).$$

## L.O. Interpret the mean of a set of data.

There are 5 number cards but one is missing.

1, 4, 1, 1 & \_\_\_\_.

What is the missing number so that the mean is 2?

The ten anglers on a riverbank caught the following number of fish each.

8   11   5   9   6   10   7   9   4  

The mean number of fish caught by each angler was 7.5. How many fish were caught by the tenth angler?

**A**

For each set of data find:

- the total of the values
- the number of items in the set
- the mean.

- 1** The number of tries scored by a rugby team in each of their first nine games.

2 4 1 7 1 3 2 6 1

- 2** The weight of five packets of cheese.

220 g 260 g 210 g 220 g 240 g

- 3** The speed in miles per hour of seven cars.

65 55 40 50 55 75 45

- 2** The first 12 customers at a booking office each bought the following number of cinema tickets.

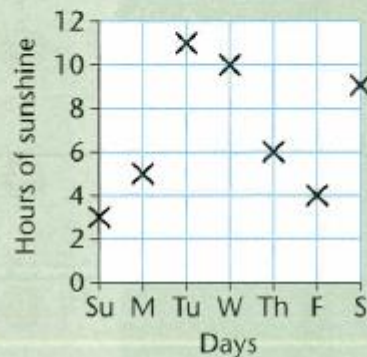
2 1 3 16 1 4  
1 5 4 1 7 2

After the 13th customer the mean number of tickets for each customer was 4. Find the number of tickets bought by the 13th customer.

- 5** The marks of ten children in their weekly spelling tests.

7 10 9 10 6  
8 10 6 9 10

- 6** The number of hours of sunshine each day in one week.



- 3** The daily maximum temperatures recorded for six days in January.



When the temperature on Saturday was included the mean temperature for the week was  $-1^{\circ}\text{C}$ . Find the Saturday temperature.

**B**

- 1** The opening batsman in a cricket team scored the highest number of runs in his team's innings. The other ten batsmen made the following scores.

1 35 17 0 15 40 0 8 1 0

The mean score for the eleven batsmen was 20. Find the opening batsman's score.

**C**

Investigating friction, Chloe let a marble roll down a ramp onto different surfaces to see how far it would roll. These are her results.

Test Number	Distance rolled on		
	Carpet	Wood	Plastic
1	1.5 m	4.7 m	3.3 m
2	1.3 m	4.5 m	?
3	1.1 m	5.0 m	2.9 m
4	1.7 m	4.3 m	3.5 m
5	1.4 m	4.8 m	3.1 m

- Find the mean distance the marble rolled on:
  - carpet
  - wood.
- The mean distance rolled on plastic was 3.24 m. Find the missing result.

- 3 The monthly rainfall recorded in millimetres in one year in Jerusalem.

J	F	M	A	M	J	J	A	S	O	N	D
100	110	80	20	10	0	0	0	0	10	60	?

Including the missing December total, the mean rainfall for each month was 40 mm. Find the rainfall for December.

- 4 Louis rolled a dice 100 times. The table shows his scores.

Score	1	2	3	4	5	6
Frequency	14	20	18	15	16	17

Find the mean score.

Joe can take the Transit Bus or the Direct Bus. Over five journeys he

Direct bus	10 min	8 min	5 min	9 min	8 min
Transit bus	16 min	1 min	2 min	15 min	1 min

has had to wait this number of minutes for a bus. What was the mean (average) time he had to wait for each bus?

There are five number cards but one is missing: 1, 4, 1, 1,  $\square$   
Write the missing number so that the mean of the five numbers is 2.

# ANSWERS

Page 152

**A**

- 1 a) 27      2 a) 1150 g      3 a) 385 mph      4 a) 121      5 a) 49  
b) 9      b) 5      b) 7      b) 11      b) 7  
c) 3      c) 230 g      c) 55 mph      c) 11      c) 7

Typo in book 48  
↙

Page 153

**B**

- 1 103      2 5      3 1°C

**C**

- 1 a) 1.4 m      b) 4.66 m      2 3.4 m      3 90 mm      4 3.5

5.  $85 \div 10 = 8.5$

$23.3 \div 5$