

Mainly means

- Find the mode, range, median and mean for sets of data
- Use different averages to solve problems

- 1 Calculate the mean of these numbers.
- a 11, 13, 15 b 81, 92, 103
- c 46, 42, 48, 44 d £9, £19, £29, £39
- e 2.7, 4.6, 7.5, 9.2, 7.0 f 17%, 26%, 35%, 44%, 52%

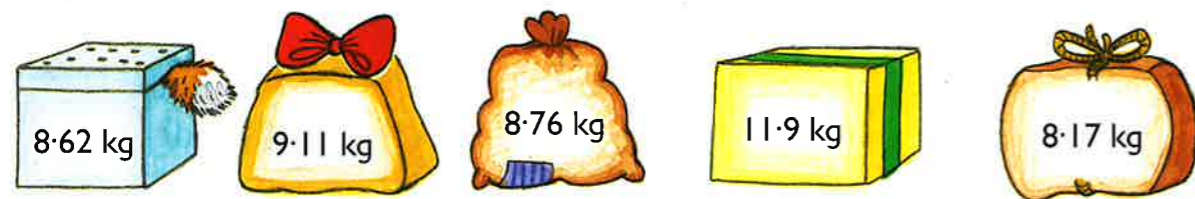
Remember

To find the mean, add the values and divide by the number of values.

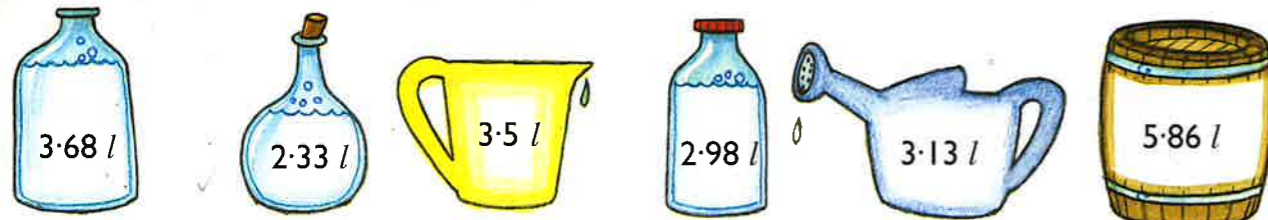
- 2 Find the mean price of these purchases.



- 3 Find the mean and median weight of these parcels.



- 4 Calculate the mean and range of liquids in these containers.



- 5 The table shows the distances covered by each athlete in 5 days of training.

Athlete	Distance in 5 days
Kevin	33.1 km
Alun	28.7 km
Meena	23.8 km
Penny	23.8 km
Kapil	32.9 km
Deng	30.5 km

- a Calculate the mean, median, range and modal distance.
- b Calculate the mean distance covered by each athlete in one day's training.

Buy our Everlong P9 battery.
Average life of 30 hours – guaranteed.

- 6 a Find the mean of this sample of P9 batteries.
- b Make a frequency table.
- c Decide whether the claim is true or false.

P9 battery life in hours

29	31	30	28	27
26	30	32	29	31
28	26	29	30	32
30	31	28	33	30

Which holiday?

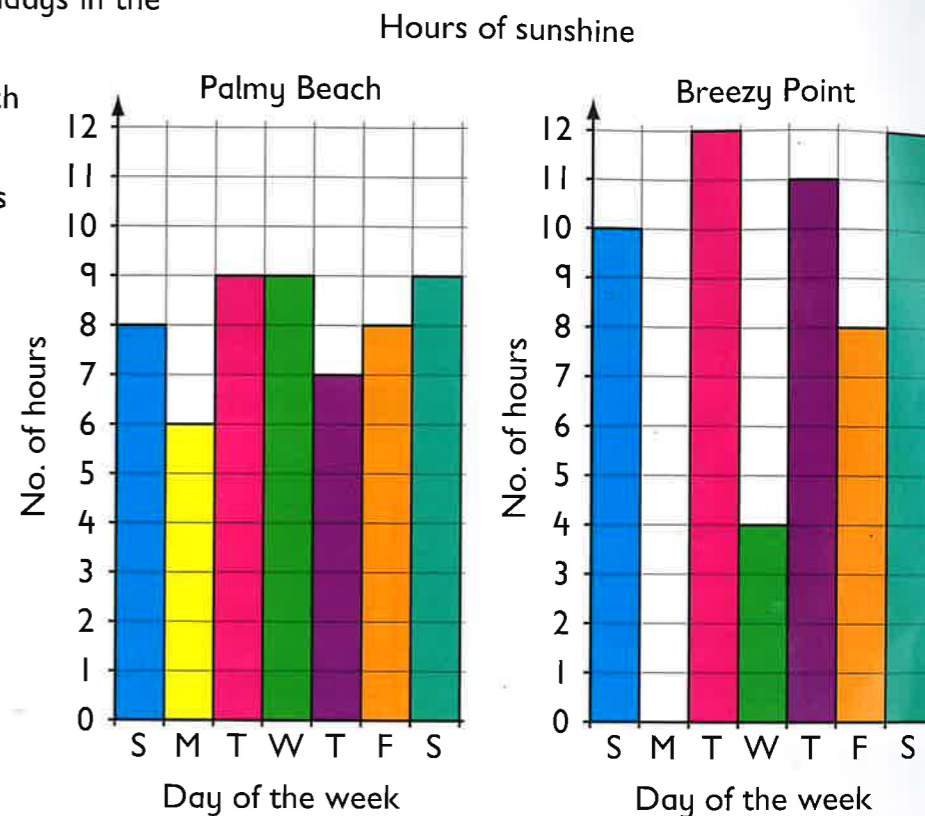
- Calculate the mean from a simple frequency table
- Compare two simple distributions using the range and one of the mode, median or mean

- 1 The Parkers and the Browns are neighbours.

Last summer they took their holidays in the same week in August.

The Parkers went to Palmy Beach and the Browns to Breezy Point.

- a Which family had more hours of sunshine per day? Calculate the range and mean number of hours of sunshine for one day.
- b Write two sentences comparing the results. Use the range and the mean.



- 2 a Calculate the range, mean and modal temperature for each holiday resort.
- b Compare the results. Use the range and the mode.

Temperature at noon °F

Resort	Su	M	Tu	W	Th	F	Sa
Palmy Beach	77	72	78	77	75	79	76
Breezy Point	75	82	81	78	81	80	81

- 3 Decide which holiday you would prefer and why.

- 4 The Waddells went on a cruise. The ship posted the daily noon temperatures.

Gillian kept a record for one week and worked out these statistics for 'Silverglide'.

Work out the temperature for each of the 7 days.

Our Cruise

Temperatures at noon
Mean = 78°F Range = 8°F
Mode = 80°F Median = 78°F

The highest temperature was 82°F.