

TASKS

1 Choose the correct word from the box to complete the following.

distribution • random • scale • sampling • statistics
mean • frequency • median • mode

The collecting, classifying and analysing of information shown in numbers is known as (a) _____.

The middle value of a set of numbers is known as the (b) _____.

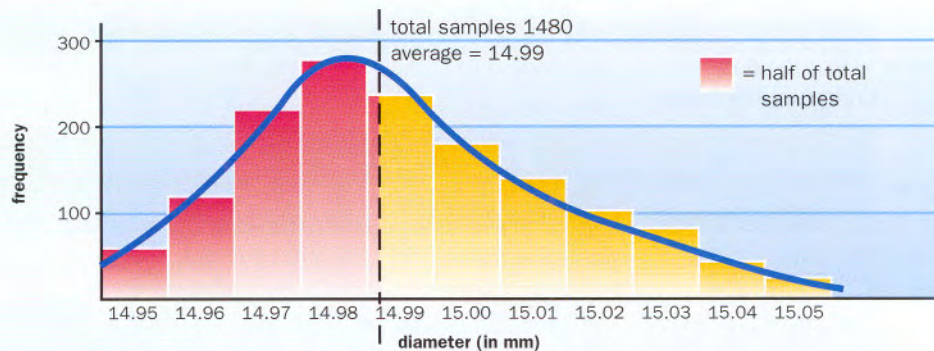
The average value is also known as the (c) _____.

The value which occurs most often is the (d) _____.

1,480 ball bearings were measured as part of quality control. The results are shown in a histogram. The histogram shows frequency (e) _____. The figures are based on a (f) _____ of 2,000 ball bearings. They were chosen at (g) _____; in no particular order, time or pattern. The measurement (h) _____ is in millimetres. The (i) _____ of 14.96mm is two.

Answer the following questions from the graph below.

The median is (j) _____. The mode of distribution is (k) _____. The mean is (l) _____.



2 Complete the following sentences with an appropriate verb from *Research Activities* on the page opposite. You will have to put the verb in the correct form.

- 1 They _____ a report on future energy requirements.
- 2 The temperature was measured every hour and carefully _____.
- 3 Following the accident, fire experts have to _____ the cause of the fire.
- 4 These clothes have not worn well so we will have to try and _____ the quality.
- 5 Scientists continue to _____ for a cure for cancer.
- 6 They are trying to _____ a solution to the problem of friction.

3 Put the following sentences in the correct order to describe the steps in the process of developing a new drug.

- a After hospital specialists have evaluated the drug, information gathered from clinical trials is analysed.
- b Data is subsequently sent to the Committee on Safety of Medicines.
- c Then an application is made to the government for a clinical licence.
- d Tests are then carried out on volunteers.
- e They are monitored closely for any other unwanted effects which were not identified earlier.
- f A decision is made by the committee and a licence issued before the new product is introduced.
- g Any side effects or toxicity are identified at this early stage.
- h First of all, a new substance is tested in the laboratories.