



Statistics

Q1) The value of π upto 50 decimal places is given below.

3.14159265358979323846264338327950288419716939937510

- Make a frequency table of digits 1 to 9 after decimal place.
- What is mode of listing.

Q2) The length of leaves of a plant are measured correct to one millimetre, and the data is represented in the following table:

| Length(mm) | Number of leaves |
|------------|------------------|
| 118-126 | 3 |
| 127-135 | 5 |
| 136-144 | 9 |
| 145-153 | 12 |
| 154-162 | 5 |
| 163-171 | 4 |
| 172-180 | 2 |

- Draw histogram to represent the data.
- Is there any suitable graphical representation for the same data?
- Is it correct to conclude that maximum number of leaves are 153mm long? Why?

Q3) The following observation have been arranged in ascending order. If the median of data is 63, find the value of x .

29, 32, 48, 50, x , $x+2$, 72, 78, 84, 95

Q4) Draw the frequency polygon for the following data:

| | | | | | |
|----------------|-------|-------|-------|-------|-------|
| Class interval | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 |
| Frequency | 5 | 8 | 12 | 9 | 4 |

Q5) in a series of tests, A appeared for 8 tests. Each test was marked out of 30 and averages 25. However, while checking his files, A could only find 7 of the 8 tests. For these he scored 29, 26, 18, 20, 27, 24 and 29. Determine how much he scored in eighth test.