Statistics test
Fri 17th November 23

Exercise 1.   *Compute the mean and the median for the LDL cholesterol level in a sample of ten heart patients:*

$$132 \quad 139 \quad 162 \quad 147 \quad 133$$
$$160 \quad 145 \quad 150 \quad 148 \quad 153.$$

What is the range?

Exercise 2.   In a particular kitchen appliance store an electric automatic rice cooker is a popular item. The weekly sales for the last 20 weeks are shown :

$$0 \quad 15 \quad 15 \quad 19 \quad 15 \quad 17 \quad 19$$
$$15 \quad 14 \quad 16 \quad 12 \quad 15 \quad 14 \quad 16$$
$$13 \quad 16 \quad 18 \quad 18 \quad 9 \quad 15.$$

Construct a frequency histogram with classes 6-10, 11-15, and 16-20.
What are the mean and median sales?

Exercise 3.   A man tosses a coin repeatedly until it lands heads and records the number of tosses required. (For example, if it lands heads on the first toss he records a 1; if it lands tails on the first two tosses and heads on the third he records a 3.) The data are shown.

value	1	2	3	4	5	6	7	8	9	10
frequency	384	208	98	56	28	12	8	2	3	1

Find the mean and median number of tosses required.