

The median of a set of data is the value that satisfies when half the values are above and half below. So, to find this out it is enough to sort the elements from smallest to largest and choose the central value.

1. Case 1 : the number of values is odd.

The have the following 5 values : 10,5,12,3,14.

We sort them : 3,5,12,14,19 and we take the central value : 12 satisfies that there are two values above and two below.

1. Case 2 : the number of values is even.

The 6 values are 4,6,5,7,3,9. We sort them : 3,4,5,6,7,9 and we take both central values, 5 and 6.

The median will be the average of both :

$$\frac{5 + 6}{2} = 5,5$$

Find the median of the following list of numbers of a Russian roulette :

0,3,14,16,19,20,21,22,30,36

We calculate the average of both central numbers, 19 and 20.

The median is 19,5