Answer on Question #61541 – Math – Statistics and Probability

Question

4. In a study on survival time for nine patients following a new treatment for AIDS. The time in

months were given thus: 24, 12, 8, 20, 3, 18, 24, 25, and 27. Determine the mode for the given

data.

Solution

24 is the mode, since it occurs twice and the rest of the outcomes occur only once.

Answer: 24.

Question

5. In a study on survival time for nine patients following a new treatment for AIDS. The time in months were given thus: 24, 12, 8, 20, 3, 18, 24, 25, and 27. Determine the range for the given

data.

Solution

The range is the difference between the highest and the lowest values. In our case the range is

equal to 27 - 3 = 24.

Answer: 24.

Question

6. In a study on survival time for nine patients following a new treatment for AIDS. The time in

months were given thus: 24, 12, 8, 20, 3, 18, 24, 25, and 27. Determine the median for the given

data.

Solution

To find the median we first sort the data: 3, 8, 12, 18, 20, 24, 24, 25, 27. There is an odd number

n=9 of values, so we need the middle value of the sorted list. The median is the fifth of them,

which is 20.

Answer: 20.