

Answer on Question #58447 – Math – Statistics and Probability

Question

If a no. is randomly chosen from following list:
32,49,55,56,28,50,40,40,45,3,25.

What is probability that the no. is multiple of 5?

Solution

Numbers that are multiple of 5 are 55, 50, 40, 40, 45, 25.

Divisibility by 5 is easily determined by checking the last digit in the number (475), and seeing if it is either 0 or 5. If the last number is either 0 or 5, the entire number is divisible by 5.

$$P\{\text{the no. is multiple of } 5\} = \frac{| \{55,50,40,40,45,25\} |}{| \{32,49,55,56,28,50,40,40,45,3,25\} |} = \frac{6}{11} \approx 0.55 .$$

Answer: $\frac{6}{11} \approx 0.55$.