Answer on Question #64734 – Math – Statistics and Probability

Question

Let the sample space be $S = \{1, 2, 3, 4, 5\}$. Suppose the outcomes are equally likely. Compute the probability of the event E ="an even number less than 5.

Solution

If the sample space is

$$S = \{1, 2, 3, 4, 5\},\$$

then

E ="an even number less than 5"= {2, 4}.

It is given that the outcomes are equally likely.

According to the classical definition of probability, the probability of the event E is

$$P(E) = \frac{|E|}{|S|} = \frac{2}{5} = 0.4.$$

Answer: 0.4.

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