## 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 $\mathrm{E}=$ "an even number less than 5.

## Solution

If the sample space is

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

then

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

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.

