## Answer on Question \#51599 - Math - Statistics and Probability

## Question

When a die is thrown, what is the probability that the number is greater than 1 , given that it is odd?
a) $1 / 5$
b) $3 / 5$
c) $4 / 5$
d) $2 / 5$

## Solution

There are 6 possible results of the experiment: $\{1,2,3,4,5,6\}$. Let $X$ be the number. The result is a success, if we will get 3 or 5 . So, using the conditional probability obtain
$P(X>1 \mid X-$ odd $)=\frac{P(X>1, X-\text { odd })}{P(X-\text { odd })}=\frac{2}{6} \frac{6}{3}=\frac{2}{3}$.

## Answer

All of the proposed answers are not correct. The right answer is $\frac{2}{3}$.

