## Answer on Question \#71847 - Math - Statistics and Probability

## Question

In a hospital 60\% of the patients are married. What's the probability that a sample of one word with 8 patient, had 3 were married

## Solution

Probability of a patient being married is 0.6
$\mathrm{P}(3$ patients being married in a ward of 8$)={ }^{8} \mathrm{C}_{3} *(0.6)^{3} *(0.4)^{5}$

$$
\begin{aligned}
& =56 * 0.216 * 0.01024 \\
& =0.1238
\end{aligned}
$$

Answer: 0.1238 .

