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

P(3 patients being married in a ward of 8) = ${}^{8}C_{3} * (0.6)^{3} * (0.4)^{5}$

= 56 * 0.216 * 0.01024

= 0.1238

Answer: 0.1238.