Answer on Question #82015 — Math — Statistics and Probability

Question

Given that 51.3% of all newly born children are boys; then what is the probability that in a sample of 5 newly born children; exactly 3 are boys.

Solution

$P = C(3, 5) * 0.513^3 * (1-0.513)^2 = \frac{5!}{3!(5-3)!} 0.513^3 \cdot 0.487^2 = 10 * 0.135 * 0.237 = 0.32$

Answer: p=0.32.