

Answer on Question #75732 - Math - Statistics and Probability

The probability for a boy baby born is 51.3%. Out of 5 babies, the probability for a boy is binomially distributed as follows-

$$X \sim Bin(n = 5, p = 0.513)$$

We're looking for 3 out of 5 boys to be boys, therefore-

$$P(x = 3) = \binom{5}{3} \cdot 0.513^3 \cdot (1 - 0.513)^2 = 0.32019166 \approx 32.02\%$$

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