## Answer for Question \#71979

Probability of a boy's birth

$$
p=51.3 \%=0.513 \quad \Rightarrow \quad q=1-p=0.487
$$

Under the Bernoulli formula, the probability that among the 5 newborns will be exactly 3 boys is

$$
P_{5}(3)=\binom{5}{3} p^{3} q^{2}=\frac{5!}{3!\cdot 2!} \cdot 0.513^{3} \cdot 0.487^{2}=0.3202=32.02 \%
$$

