## Answer on Question \#57587 - Math - Combinatorics | Number Theory

## Question

There are 15 boys and 10 girls in your class. A four member committee is to be formed from the students
of your class. In how many ways this can be done if the committee consists at least three girls?

$$
\begin{array}{r}
\text { Solution } \\
C_{15}^{1} \cdot C_{10}^{3}+C_{15}^{0} \cdot C_{10}^{4}=\frac{15!}{14!} \cdot \frac{10!}{3!7!}+\frac{15!}{15!} \cdot \frac{10!}{4!6!}=2010 .
\end{array}
$$

Answer: 2010.

