

Answer on question 38061 – Math – Algebra

A club has 8 members. if the club wants to form a committee of 4 members, how many different committee can be found?

In mathematics a **combination** is a way of selecting k things out of a group of n things, where order does not matter, can be founded using following formula

$$C_n^k = \frac{n!}{k!(n-k)!}$$

Therefore we get

$$C_8^4 = \frac{8!}{4!4!} = \frac{8 * 7 * 6 * 5}{4 * 3 * 2 * 1} = 70.$$

Answer: 70.