Permutations and Combinations Assignment

Find the value of the factorial in each case.

1. $4! =$ _____

2. $10! =$ _____

3. $0! =$ _____

Find the permutation in each case.

1. $^nP_n =$ _____

2. $^nP_1 =$ _____

3. $^{10}P_5 =$ _____

4. $^{10}P_{10} =$ _____

5. $^{20}P_2 =$ _____

Find the combination in each case.

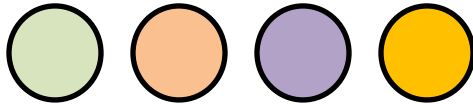1. $^nC_n =$ _____

2. $^nC_1 =$ _____

3. $^{10}C_5 =$ _____

4. $^{10}C_{10} =$ _____

5. $^{20}C_2 =$ _____

Permutations and Combinations Assignment

How many words can be made from the letters c,r,d,e,u if each letter is used only once in each word?

_____

In how many ways can these balls be arranged in the box shown below?

_____

In the school football team, there are 12 players. If the coach needs 6 players to start for the futsal match, in how many different ways can the coach pick these 6 players out of 12?

_____