

## 6.4 Permutations and Combinations

*To calculate the factorial:*

Type in the number, for example, 4.  
**MATH** and right arrow to PRB.  
Choose 4: !  
Your home screen should now show 4!.  
Press ENTER.

*To calculate a permutation,  $P(n, r)$ :*

Enter the value of  $n$ , for example, 5.  
**MATH** and right arrow to PRB.  
Choose 2: nPr  
Enter the value of  $r$ , for example, 3.  
Your home screen should now show 5 nPr 3.  
Press ENTER.

*To calculate a combination,  $C(n, r)$ :*

Enter the value of  $n$ , for example, 5.  
**MATH** and right arrow to PRB.  
Choose 3: nCr  
Enter the value of  $r$ , for example, 3.  
Your home screen should now show 5 nCr 3.  
Press ENTER.