

1. Evaluate the following expression:
  - a.  $C(6,4)$
  
2. Three students are selected from a class of 18 to work on a special project. In how many ways can the students be selected?
  
  
  
  
  
  
  
  
  
  
3. In the same class of 18 as above, in how many ways can at most 3 students be chosen?
  
  
  
  
  
  
  
  
  
  
4. The math club has 23 members and need to select a committee of five people to plan the Pi Day event. In how many ways can the committee be made?
  
  
  
  
  
  
  
  
  
  
5. You and a few friends go apple picking. In your barrel of apples you have 6 green apples and 4 red apples. If you pick out 5 apples how many ways can you pick exactly 2 green and 3 red?
  
  
  
  
  
  
  
  
  
  
6. In the same barrel of apples in how many ways can you select at least 7 apples (color does not matter)?