A bagel shop has bagels

1. Choose a dozen bagels?
   1. N = 8
   2. R = 12
   3. Since repetition is allowed:
2. Choose a dozen bagels with at least one of each kind
   1. N = 8
   2. R = 4
   3. Since repetition is allowed:
3. Choose a dozen bagels w/ at least 3 egg and no more than two salty
   1. 3 cases
      1. 1st case is when there are 0 salty
         1. N = 7
         2. R = 9
         3. Since repetition is allowed:
      2. 2nd case is when there are 1 salty
         1. N=7
         2. R=8
         3. Since repetition is still allowed:
      3. 3rd case is when there are 2 salty
         1. N=7
         2. R=7
         3. Since repetition is amazingly still allowed:
   2. Now we use the sum rule:
      1. 5005 + 3003 + 1716

Regards from

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