Eric Rouse

Individual Assignments #58

Assignment: Section 5.3: 6, 10, 12, 24, 26

# Q6

1. C(5,1) = 5!/(1!\*(5-1)!) = 5!/4! = 5
2. C(5,3) = 10
3. C(8,4) = 70
4. C(8,8) = 1
5. C(8,0) = 1
6. C(12,6) = 924

# Q10

P(6) = 6! = 720

# Q12

1. C(12,3) = 220
2. C(12,3) + C(12,2) + C(12,1) + C(12,0) = 229
3. C(12,12) + C(12,11) + C(12,10) + C(12,9) + C(12,8) + C(12,7) + C(12,6) + C(12,5) + C(12,4) = 3797
4. C(12,6) = 924

# Q24

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NumWomen!\*P(NumSpaces,Nm)=10!\*P(11,6) = 1207084032000

# Q26

1. C(13,10) = 286
2. C(13,10) = 286
3. C(10,9)\*C(3,1) = 30