



Math Olympiad and Problem Solving Programs  
E220 - Intermediate Math Competitions  
Problem Set 6.2 - Repeats

Name:

Date:

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1.  $\frac{11!}{2!2!2!}$
2.  $\frac{P(5,4)}{3!} = 20$
3.  $\frac{P(4,2)}{2} \times \frac{P(3,2)}{2} = C(4,2)(3,2) = 18$
4.  $\frac{6(6-3)}{2} = 9$
5.  $(5 \times 5) + (10 \times 2) = 45$
6. 18
7.  $5!5! = 14400$
8.  $\frac{P(10,3)}{3!} = C(10,3) = 120$
9.  $C(6,2) = 15$
10.  $\frac{P(5,2)}{2} \times \frac{P(6,2)}{2} = C(5,2)(6,2) = 150$