

Problem Set

1. $n = 8$ ✓
 $P = [(n - 2) - 1]!3!$ ✓
 $P = [(8 - 2) - 1]!3!$ ✓
 $= 5!3!$ ✓
 $= 720$ ✓ ways ✓
2. $n = 6$ ✓
 $P = [(n - 1) - 1]!2!$ ✓
 $P = [(6 - 1) - 1]!2!$ ✓
 $= 4!2!$ ✓
 $= 48$ ✓ ways ✓
3. $n = 10$ ✓
 $P = \frac{(10 - 1)!}{2}$ ✓
 $P = \frac{9!}{2}$ ✓
 $= 181,440$ ✓ ways ✓
4. $n = 7$ ✓
 $P = (7 - 1)!$ ✓
 $= 6!$ ✓
 $= 720$ ✓ ways ✓
5. a. $n = 13$ ✓
 $P = (13 - 1)!$ ✓
 $= 12!$ ✓
 $= 479,001,600$ ✓ ways ✓
b. $n = 13$ ✓
 $P = [(n - 1) - 1]!2!$ ✓
 $P = [(13 - 1) - 1]!2!$ ✓
 $= 11!2!$ ✓
 $= 79,833,600$ ✓ ways ✓
c. $n = 13$ ✓
 $P = (n - 1)! - [(n - 1) - 1]!2!$ ✓
 $P = (13 - 1)! - [(13 - 1) - 1]!2!$ ✓
 $= 12! - 11!2!$ ✓
 $= 479,001,600 - 79,833,600$ ✓
 $= 399,168,000$ ✓ ways ✓

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