

Name : \_\_\_\_\_

## Permutations & Combinations

L2S1

Evaluate the following.

1)  $\frac{P(8, 2)}{C(7, 1) \times C(9, 9)} - 5!$

2)  $\frac{3! (C(24, 21) + P(4, 4))}{16P(5, 3)}$

3)  $\frac{P(7, 7) \times P(9, 3)}{24P(9, 3)}$

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$\frac{P(9, 7)}{C(10, 5)}$

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5)  $\frac{P(6, 4)}{C(36, 35)} + C(70, 68)$

$\frac{P(3, 1)}{P(3, 1)}$