

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

## Permutations & Combinations

L2S2

Evaluate the following.

$$1) \quad \frac{11}{C(67, 67)} - \frac{8}{P(48, 1)}$$

$$2) \quad \frac{P(14, 2) \times P(3, 1)}{10C(54, 53) + 3!}$$

$$3) \quad \frac{C(46, 44) - C}{2(P(3, 3))} \cdot \frac{(16, 12)}{(91, 89)}$$

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$$5) \quad 4! + \frac{P(18, 3)}{16P(2, 2)} \cdot \frac{(75, 73) - C(7, 2)}{5! \times 3}$$

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Evaluate the following.

$$1) \quad \frac{11}{C(67, 67)} - \frac{8}{P(48, 1)}$$

$$2) \quad \frac{P(14, 2) \times P(3, 1)}{10C(54, 53) + 3!}$$

$$\frac{65}{6} \text{ or } 10\frac{5}{6}$$

# PREVIEW

$$3) \quad \frac{C(46, 44) - C}{2(P(3, 3))}$$

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$$\frac{(16, 12)}{(91, 89)}$$

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$$-492$$

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$$5) \quad 4! + \frac{P(18, 3)}{16P(2, 2)}$$

$$\frac{(75, 73) - C(7, 2)}{5! \times 3}$$

$$177$$

$$-918$$