

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

## Evaluating Permutations

L2S3

Evaluate the following.

1)  $\frac{P(16, 1) \times P(2, 2)}{P(3, 2) + P(5, 5)}$

2)  $\frac{-P(4, 3) - P(7, 5)}{24P(48, 1)} \times P(5, 4)$

3)  $\frac{104P(53, 4)}{P(53, 46)} + P(6, 2)$

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5)  $\frac{600 - P(8, 7)}{P(7, 6) - P(1, 7)} + \frac{P(15, 8)}{P(14, 7)}$

## Evaluating Permutations

L2S3

Evaluate the following.

$$1) \frac{P(16, 1) \times P(2, 2)}{P(3, 2) + P(5, 5)}$$

$$2) \frac{-P(4, 3) - P(7, 5)}{24P(48, 1)} \times P(5, 4)$$

$$\frac{16}{63}$$

$$3) \frac{104P(53, 4)}{P(53, 46)}$$

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$$\frac{16}{15} + P(6, 2)$$

$$728$$

$$5) \frac{600 - P(8, 7)}{P(7, 6) - P(1, 1)}$$

$$\frac{P(15, 8)}{P(14, 7)}$$

$$-\frac{1}{4}$$

$$428$$