

Name : _____

Permutations & Combinations

L1S3

Evaluate the following.

1) $C(55, 54) - P(15, 2)$ 2) $C(8, 6) \times P(3, 3)$ 3) $\frac{C(6, 5)}{2!} + 15$

4) $\frac{C(10, 3)}{P(4, 2) + 24}$

$-C(18, 17) - P(6, 6)$

7) $\frac{40P(11, 2)}{5! \times 55}$

$9 + \frac{C(5, 3)}{P(5, 2)}$

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com

10) $-13 + P(8, 1)$

11) $\frac{P(11, 4)}{C(10, 7)}$

12) $-\frac{4!}{C(9, 8) \times P(16, 1)}$

Name : _____

Answer key

Permutations & Combinations

L1S3

Evaluate the following.

1) $C(55, 54) - P(15, 2)$ 2) $C(8, 6) \times P(3, 3)$ 3) $\frac{C(6, 5)}{2!} + 15$

-155

168

18

4) $\frac{C(10, 3)}{P(4, 2) + 24}$

$-C(18, 17) - P(6, 6)$

$\frac{10}{3}$ or $3\frac{1}{3}$

PREVIEW
Gain complete access to the largest collection of worksheets in all subjects!

-738

7) $\frac{40P(11, 2)}{5! \times 55}$

$9 + \frac{C(5, 3)}{P(5, 2)}$

$\frac{2}{3}$

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com

$\frac{19}{2}$ or $9\frac{1}{2}$

10) $-13 + P(8, 1)$

11) $\frac{P(11, 4)}{C(10, 7)}$

12) $\frac{4!}{C(9, 8) \times P(16, 1)}$

-5

66

$-\frac{1}{6}$