

Name : _____

Evaluating Combinations

L1S1

Evaluate the following.

1) $4C(14, 12)$

2) $C(30, 28) - C(16, 13)$

3) $C(93, 93) \times C(41, 39)$

4) $-86 + C(12, 9)$

5) $-\frac{C(56, 3)}{5!}$

6) $2C(4, 2) - 10$

7) $C(5, 3) + 4!$

8) $\frac{44!}{45! C(8, 8)}$

9) $\frac{21}{C(3, 1)}$

10) $6(C(7, 1) + C(19, 18))$

11) $\frac{C(9, 7)}{C(6, 4)} + 2!$

12) $-C(25, 22)$

Name : _____

Answer key

Evaluating Combinations

L1S1

Evaluate the following.

1) $4C(14, 12)$

364

2) $C(30, 28) - C(16, 13)$

-125

3) $C(93, 93) \times C(41, 39)$

820

4) $-86 + C(12, 9)$

134

5) $-\frac{C(56, 3)}{5!}$

-231

6) $2C(4, 2) - 10$

2

7) $C(5, 3) + 4!$

34

8) $\frac{44!}{45! C(8, 8)}$

$\frac{1}{45}$

9) $\frac{21}{C(3, 1)}$

7

10) $6(C(7, 1) + C(19, 18))$

156

11) $\frac{C(9, 7)}{C(6, 4)} + 2!$

$\frac{22}{5}$ or $4\frac{2}{5}$

12) $-C(25, 22)$

-2,300