

Evaluating Factorial

Evaluate the following.

1) $\frac{6 \times (5!)^2}{4! 5!}$

2) $3! 2! - \frac{26!}{24!} \times 1!$

3) $\frac{(3!)^3}{9}$

4) $\sqrt{(7 + 2!)}$

$\frac{(2!)^3}{0! 1!}$

7) $\frac{8!}{7!} + 3! - 15$

$\frac{83!}{82!} + 5!$

10) $\frac{46!}{45!} \div \frac{12!}{13!} + 2!$

11) $(1! - 0!)^0$

12) $\frac{(53 - 1)! 51!}{(51!)^2}$

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Answer key

Evaluating Factorial

L2S2

Evaluate the following.

1) $\frac{6 \times (5!)^2}{4! 5!}$

30

2) $3! 2! - \frac{26!}{24!} \times 1!$

-638

3) $\frac{(3!)^3}{9}$

24

4) $\sqrt{(7 + 2!)}$

3

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$\frac{(2!)^3}{0! 1!}$

8

7) $\frac{8!}{7!} + 3! - 15$

-1

$\frac{83!}{82!} + 5!$

203

10) $\frac{46!}{45!} \div \frac{12!}{13!} + 2!$

600

11) $(1! - 0!)^0$

1

12) $\frac{(53 - 1)! 51!}{(51!)^2}$

52