

Name : _____

Evaluating Factorial

L2S1

Evaluate the following.

1) $(3!)^2$

2) $(2! + 1!)^3$

3) $\frac{20 \times 2!}{5!} + \frac{2}{3!}$

4) $\left(\frac{4!}{2!}\right)^2 \times \sqrt{(5! \div 2)}$

PREVIEW

$\frac{(5 + 1!)^3}{3!}$

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7) $\frac{34!}{33!} - 5!$

$(2! 0!)^4 - 1!$

10) $(3! - 0!)^3$

11) $\frac{(12 - 5 \times 2)!}{(3 - 6 + 3)!} - 2!$

12) $\frac{6!}{5!} + \frac{7!}{6!} - \frac{5!}{3!}$

Name : _____

Answer key

Evaluating Factorial

L2S1

Evaluate the following.

1) $(3!)^2$

36

2) $(2! + 1!)^3$

27

3) $\frac{20 \times 2!}{5!} + \frac{2}{3!}$

$\frac{2}{3}$

4) $\left(\frac{4!}{2!}\right)^2 \times \sqrt{(5! \div 3)}$

144

PREVIEW

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$\frac{(5 + 1!)^3}{3!}$

36

7) $\frac{34!}{33!} - 5!$

-86

$(2! 0!)^4 - 1!$

15

10) $(3! - 0!)^3$

125

11) $\frac{(12 - 5 \times 2)!}{(3 - 6 + 3)!} - 2!$

0

12) $\frac{6!}{5!} + \frac{7!}{6!} - \frac{5!}{3!}$

-7