# ORDER OF OPERATIONS

Example:   $9^2 + ((15 \div 5) \times 19) - 3^3$

$= 9^2 + (3 \times 19) - 3^3$

$= 9^2 + 57 - 3^3$

$= 81 + 57 - 27$

$= 138 - 27$

$= \mathbf{111}$

Solve each expression.

1)   $4^3 - (2^3 + (12 \times 2) + 9)$

_____

2)   $(7 \times (15 \div 3 + 6) - 3) - 9^2$

_____

3)   $10 - (7 + (2 \times 14 \div 2^2))$

_____

4)   $9 + 3^2 - ((24 \div 2^3) \times 5) + 19$

_____

5)   $(4^2 \div 8 \times (3 \times 4)) + 86 - 5$

_____

6)   $35 \div 5 \times ((2 + 3)^2 - 21)$

_____

7)   $1 + ((7 \times 2^2) - 11) + 3^3$

_____

8)   $(5^2 - (3 \times 4 + 12)) \times 7^2$

_____

**Name** _____

**Score** _____

# ORDER OF OPERATIONS

**Answer key**

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Example:  $9^2 + ((15 \div 5) \times 19) - 3^3$

$= 9^2 + (3 \times 19) - 3^3$

$= 9^2 + 57 - 3^3$

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Solve each expression.

1)  $4^3 - (2^3 + (12 \times 2) + 9)$

   _____ **23**

2)  $(7 \times (15 \div 3 + 6) - 3) - 9^2$

   _____ **−7**

3)  $10 - (7 + (2 \times 14 \div 2^2))$

   _____ **−4**

4)  $9 + 3^2 - ((24 \div 2^3) \times 5) + 19$

   _____ **22**

5)  $(4^2 \div 8 \times (3 \times 4)) + 86 - 5$

   _____ **105**

6)  $35 \div 5 \times ((2 + 3)^2 - 21)$

   _____ **28**

7)  $1 + ((7 \times 2^2) - 11) + 3^3$

   _____ **45**

8)  $(5^2 - (3 \times 4 + 12)) \times 7^2$

   _____ **49**