

Curriculum Outcome

(N4) Explain and apply the order of operations, including exponents, with and without technology.

**Student Friendly:
"BEDMAS"**

Name : _____ Score : _____

Teacher : _____ Date : _____

Order of Operations

1) $(31 - 3) \div 7 + 4^2$

6) $(41 - 3^2) \div (18 - 2)$

2) $7 \times (13 - 3) - 2^2$

7) $5 \times (10 - 6) + 7^2$

3) $(51 - 3) \div 2 - 5^2$

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

4) $(6 + 3)^2 + (12 \div 3)$

9) $(39 - 3^2) \div (-1 + 4)$

5) $(7 + 2)^2 + (20 \div 10)$

10) $(12 \times 7 - 5^2) + 3$

Order of Operations

$$\begin{array}{r}
 1) (31 - 3) \div 7 + 4^2 \\
 28 \div 7 + 4^2 \\
 28 \div 7 + 16 \\
 4 + 16 \\
 20
 \end{array}$$

$$\begin{array}{r}
 6) (41 - 3^2) \div (18 - 2) \\
 (41 - 9) \div (18 - 2) \\
 32 \div 16 \\
 2
 \end{array}$$

$$\begin{array}{r}
 2) 7 \times (13 - 3) - 2^2 \\
 7 \times 10 - 2^2 \\
 7 \times 10 - 4 \\
 70 - 4 \\
 66
 \end{array}$$

$$\begin{array}{r}
 7) 5 \times (10 - 6) + 7^2 \\
 5 \times 4 + 7^2 \\
 5 \times 4 + 49 \\
 20 + 49 \\
 69
 \end{array}$$

$$\begin{array}{r}
 3) (51 - 3) \div 2 - 5^2 \\
 48 \div 2 - 5^2 \\
 48 \div 2 - 25 \\
 24 - 25 \\
 -1
 \end{array}$$

$$\begin{array}{r}
 8) (12 \times 5 + 5^2) + 4 \\
 (12 \times 5 + 25) + 4 \\
 (60 + 25) + 4 \\
 85 + 4 \\
 89
 \end{array}$$

$$\begin{array}{r}
 4) (6 + 3)^2 + (12 \div 3) \\
 9^2 + 4 \\
 81 + 4 \\
 85
 \end{array}$$

$$\begin{array}{r}
 9) (39 - 3^2) \div (-1 + 4) \\
 (39 - 9) \div (-1 + 4) \\
 30 \div 3 \\
 10
 \end{array}$$

$$\begin{array}{r}
 5) (7 + 2)^2 + (20 \div 10) \\
 9^2 + 2 \\
 81 + 2 \\
 83
 \end{array}$$

$$\begin{array}{r}
 10) (12 \times 7 - 5^2) + 3 \\
 (12 \times 7 - 25) + 3 \\
 (84 - 25) + 3 \\
 59 + 3 \\
 62
 \end{array}$$

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Order of Operations

1) $(15 + 61 - 6^2) \div (13 - 3)$

6) $(12 + 24 - 2^2) \div (8 - 4)$

2) $(7 + 2)^2 + (13 - 12 \div 6)$

7) $6 \times (13 \times 6 - 3^2) - 9$

3) $(10 + 3) \times (12 + 4) - 6^2$

8) $(10 - 4)^2 + (14 + 8 \div 4)$

4) $8 \times (12 \times 5 - 9^2) + 10$

9) $(13 + 30 - 3) \div 10 - 4^2$

5) $(11 + 27 - 2) \div 3 + 6^2$

10) $(10 - 6) \times (13 + 5) - 7^2$

Order of Operations

$$\begin{aligned}
 1) & (15 + 61 - 6^2) \div (13 - 3) \\
 & (15 + 61 - 36) \div (13 - 3) \\
 & (76 - 36) \div 10 \\
 & 40 \div 10 \\
 & 4
 \end{aligned}$$

$$\begin{aligned}
 6) & (12 + 24 - 2^2) \div (8 - 4) \\
 & (12 + 24 - 4) \div (8 - 4) \\
 & (36 - 4) \div 4 \\
 & 32 \div 4 \\
 & 8
 \end{aligned}$$

$$\begin{aligned}
 2) & (7 + 2)^2 + (13 - 12 \div 6) \\
 & (9)^2 + (13 - 2) \\
 & 81 + 11 \\
 & 92
 \end{aligned}$$

$$\begin{aligned}
 7) & 6 \times (13 \times 6 - 3^2) - 9 \\
 & 6 \times (13 \times 6 - 9) - 9 \\
 & 6 \times (78 - 9) - 9 \\
 & 6 \times 69 - 9 \\
 & 414 - 9 \\
 & 405
 \end{aligned}$$

$$\begin{aligned}
 3) & (10 + 3) \times (12 + 4) - 6^2 \\
 & (10 + 3) \times (12 + 4) - 36 \\
 & 13 \times 16 - 36 \\
 & 208 - 36 \\
 & 172
 \end{aligned}$$

$$\begin{aligned}
 8) & (10 - 4)^2 + (14 + 8 \div 4) \\
 & (6)^2 + (14 + 2) \\
 & 36 + 16 \\
 & 52
 \end{aligned}$$

$$\begin{aligned}
 4) & 8 \times (12 \times 5 - 9^2) + 10 \\
 & 8 \times (12 \times 5 - 81) + 10 \\
 & 8 \times (60 - 81) + 10 \\
 & 8 \times -21 + 10 \\
 & -168 + 10 \\
 & -158
 \end{aligned}$$

$$\begin{aligned}
 9) & (13 + 30 - 3) \div 10 - 4^2 \\
 & (13 + 30 - 3) \div 10 - 16 \\
 & (43 - 3) \div 10 - 16 \\
 & 40 \div 10 - 16 \\
 & 4 - 16 \\
 & -12
 \end{aligned}$$

$$\begin{aligned}
 5) & (11 + 27 - 2) \div 3 + 6^2 \\
 & (11 + 27 - 2) \div 3 + 36 \\
 & (38 - 2) \div 3 + 36 \\
 & 36 \div 3 + 36 \\
 & 12 + 36 \\
 & 48
 \end{aligned}$$

$$\begin{aligned}
 10) & (10 - 6) \times (13 + 5) - 7^2 \\
 & (10 - 6) \times (13 + 5) - 49 \\
 & 4 \times 18 - 49 \\
 & 72 - 49 \\
 & 23
 \end{aligned}$$



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Teacher : _____ Date : _____

Order of Operations

1) $3 + (9 + (6 + 5)^2)$

6) $10 + ((16 + 3) + 6^2)$

2) $(5^2 + (12 \div 6 + 3^2))$

7) $((15 + 5) + (20 \div 10)^2)$

3) $((15 - 6) - (16 \div 2)^2)$

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

4) $(6^2 + (14 \div 2 + 3^2))$

9) $15 + ((18 - 7) + 5^2)$

5) $((3 + 3)^2 + 6) + 8^2$

10) $19 + (4 + (5 + 4)^2)$



Order of Operations

$$\begin{aligned}
 1) \quad & 3 + (9 + (6 + 5)^2) \\
 & 3 + (9 + 11^2) \\
 & 3 + (9 + 121) \\
 & 3 + 130 \\
 & \quad 133
 \end{aligned}$$

$$\begin{aligned}
 6) \quad & 10 + ((16 + 3) + 6^2) \\
 & 10 + (19 + 6^2) \\
 & 10 + (19 + 36) \\
 & 10 + 55 \\
 & \quad 65
 \end{aligned}$$

$$\begin{aligned}
 2) \quad & (5^2 + (12 \div 6 + 3^2)) \\
 & (5^2 + (12 \div 6 + 9)) \\
 & (5^2 + (2 + 9)) \\
 & (5^2 + 11) \\
 & (25 + 11) \\
 & \quad 36
 \end{aligned}$$

$$\begin{aligned}
 7) \quad & ((15 + 5) + (20 \div 10)^2) \\
 & (20 + (2)^2) \\
 & (20 + 4) \\
 & \quad 24
 \end{aligned}$$

$$\begin{aligned}
 3) \quad & ((15 - 6) - (16 \div 2)^2) \\
 & (9 - (8)^2) \\
 & (9 - 64) \\
 & \quad -55
 \end{aligned}$$

$$\begin{aligned}
 8) \quad & ((4 + 2)^2 \times 3) - 2^2 \\
 & (6^2 \times 3) - 2^2 \\
 & (36 \times 3) - 2^2 \\
 & 108 - 2^2 \\
 & 108 - 4 \\
 & \quad 104
 \end{aligned}$$

$$\begin{aligned}
 4) \quad & (6^2 + (14 \div 2 + 3^2)) \\
 & (6^2 + (14 \div 2 + 9)) \\
 & (6^2 + (7 + 9)) \\
 & (6^2 + 16) \\
 & (36 + 16) \\
 & \quad 52
 \end{aligned}$$

$$\begin{aligned}
 9) \quad & 15 + ((18 - 7) + 5^2) \\
 & 15 + (11 + 5^2) \\
 & 15 + (11 + 25) \\
 & 15 + 36 \\
 & \quad 51
 \end{aligned}$$

$$\begin{aligned}
 5) \quad & ((3 + 3)^2 + 6) + 8^2 \\
 & (6^2 + 6) + 8^2 \\
 & (36 + 6) + 8^2 \\
 & 42 + 8^2 \\
 & 42 + 64 \\
 & \quad 106
 \end{aligned}$$

$$\begin{aligned}
 10) \quad & 19 + (4 + (5 + 4)^2) \\
 & 19 + (4 + 9^2) \\
 & 19 + (4 + 81) \\
 & 19 + 85 \\
 & \quad 104
 \end{aligned}$$



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Order of Operations

1) $((9 - 2)^2 + 3) + 10 + 8^2$

6) $((14 - 7) + (15 \div 5)^2) \times 3^2$

2) $(4^2 + (14 \div 2 + 3^2)) + 5^2$

7) $(15 \div 5)^2 + ((13 + 5) + 3^2)$

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

8) $9 + (10 + (4 + 6)^2) - 6$

4) $((17 + 6) - (18 \div 6)^2) + 2^2$

9) $(14 \div 7)^2 + ((12 + 7) + 5^2)$

5) $17 + (2 \times (5 + 5)^2) - 2$

10) $(7^2 + (10 \div 2 + 4^2)) + 5^2$



Order of Operations

$$\begin{aligned}
 1) & ((9 - 2)^2 + 3) + 10 + 8^2 \\
 & (7^2 + 3) + 10 + 64 \\
 & (49 + 3) + 10 + 64 \\
 & 52 + 10 + 64 \\
 & 126
 \end{aligned}$$

$$\begin{aligned}
 6) & ((14 - 7) + (15 \div 5)^2) \times 3^2 \\
 & (7 + (3)^2) \times 3^2 \\
 & (7 + 9) \times 3^2 \\
 & 16 \times 3^2 \\
 & 16 \times 9 \\
 & 144
 \end{aligned}$$

$$\begin{aligned}
 2) & (4^2 + (14 \div 2 + 3^2)) + 5^2 \\
 & (4^2 + (14 \div 2 + 9)) + 5^2 \\
 & (4^2 + (7 + 9)) + 5^2 \\
 & (16 + 16) + 25 \\
 & 32 + 25 \\
 & 57
 \end{aligned}$$

$$\begin{aligned}
 7) & (15 \div 5)^2 + ((13 + 5) + 3^2) \\
 & (3)^2 + (18 + 3^2) \\
 & 9 + (18 + 9) \\
 & 9 + 27 \\
 & 36
 \end{aligned}$$

$$\begin{aligned}
 3) & ((9 - 3)^2 \times 2) + 9 - 3^2 \\
 & (6^2 \times 2) + 9 - 9 \\
 & (36 \times 2) + 9 - 9 \\
 & 72 + 9 - 9 \\
 & 72
 \end{aligned}$$

$$\begin{aligned}
 8) & 9 + (10 + (4 + 6)^2) - 6 \\
 & 9 + (10 + 10^2) - 6 \\
 & 9 + (10 + 100) - 6 \\
 & 9 + 110 - 6 \\
 & 113
 \end{aligned}$$

$$\begin{aligned}
 4) & ((17 + 6) - (18 \div 6)^2) + 2^2 \\
 & (23 - (3)^2) + 2^2 \\
 & (23 - 9) + 2^2 \\
 & 14 + 2^2 \\
 & 14 + 4 \\
 & 18
 \end{aligned}$$

$$\begin{aligned}
 9) & (14 \div 7)^2 + ((12 + 7) + 5^2) \\
 & (2)^2 + (19 + 5^2) \\
 & 4 + (19 + 25) \\
 & 4 + 44 \\
 & 48
 \end{aligned}$$

$$\begin{aligned}
 5) & 17 + (2 \times (5 + 5)^2) - 2 \\
 & 17 + (2 \times 10^2) - 2 \\
 & 17 + (2 \times 100) - 2 \\
 & 17 + 200 - 2 \\
 & 215
 \end{aligned}$$

$$\begin{aligned}
 10) & (7^2 + (10 \div 2 + 4^2)) + 5^2 \\
 & (7^2 + (10 \div 2 + 16)) + 5^2 \\
 & (7^2 + (5 + 16)) + 5^2 \\
 & (49 + 21) + 25 \\
 & 70 + 25 \\
 & 95
 \end{aligned}$$

