

Name : _____

Score : _____

Teacher : _____

Date : _____

Order of Operations

1) $(3^2 + (12 - 2 + 4^2))$

6) $(5^2 + (18 - 6 + 2^2))$

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

7) $10 + (7 + (9 - 6)^2)$

3) $16 + ((15 + 2) + 4^2)$

8) $((10 + 3) + (20 - 10)^2)$

4) $((16 - 3) + (16 - 4)^2)$

9) $9 + (6 \times (11 - 2)^2)$

5) $((4 + 2)^2 + 5) + 7^2$

10) $18 + ((18 + 2) \times 6^2)$



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Order of Operations

$$\begin{aligned}
 1) & (3^2 + (12 - 2 + 4^2)) \\
 & (3^2 + (12 - 2 + 16)) \\
 & (3^2 + (10 + 16)) \\
 & (3^2 + 26) \\
 & (9 + 26) \\
 & \quad 35
 \end{aligned}$$

$$\begin{aligned}
 6) & (5^2 + (18 - 6 + 2^2)) \\
 & (5^2 + (18 - 6 + 4)) \\
 & (5^2 + (12 + 4)) \\
 & (5^2 + 16) \\
 & (25 + 16) \\
 & \quad 41
 \end{aligned}$$

$$\begin{aligned}
 2) & ((5 + 4)^2 + 4) + 2^2 \\
 & (9^2 + 4) + 2^2 \\
 & (81 + 4) + 2^2 \\
 & \quad 85 + 2^2 \\
 & \quad 85 + 4 \\
 & \quad \quad 89
 \end{aligned}$$

$$\begin{aligned}
 7) & 10 + (7 + (9 - 6)^2) \\
 & 10 + (7 + 3^2) \\
 & 10 + (7 + 9) \\
 & 10 + 16 \\
 & \quad 26
 \end{aligned}$$

$$\begin{aligned}
 3) & 16 + ((15 + 2) + 4^2) \\
 & 16 + (17 + 4^2) \\
 & 16 + (17 + 16) \\
 & 16 + 33 \\
 & \quad 49
 \end{aligned}$$

$$\begin{aligned}
 8) & ((10 + 3) + (20 - 10)^2) \\
 & (13 + (10)^2) \\
 & (13 + 100) \\
 & \quad 113
 \end{aligned}$$

$$\begin{aligned}
 4) & ((16 - 3) + (16 - 4)^2) \\
 & (13 + (12)^2) \\
 & (13 + 144) \\
 & \quad 157
 \end{aligned}$$

$$\begin{aligned}
 9) & 9 + (6 \times (11 - 2)^2) \\
 & 9 + (6 \times 9^2) \\
 & 9 + (6 \times 81) \\
 & 9 + 486 \\
 & \quad 495
 \end{aligned}$$

$$\begin{aligned}
 5) & ((4 + 2)^2 + 5) + 7^2 \\
 & (6^2 + 5) + 7^2 \\
 & (36 + 5) + 7^2 \\
 & \quad 41 + 7^2 \\
 & \quad 41 + 49 \\
 & \quad \quad 90
 \end{aligned}$$

$$\begin{aligned}
 10) & 18 + ((18 + 2) \times 6^2) \\
 & 18 + (20 \times 6^2) \\
 & 18 + (20 \times 36) \\
 & 18 + 720 \\
 & \quad 738
 \end{aligned}$$

