

Name: _____

Grade: _____

Score: _____

Worksheet #4



BIDMAS

Learning goal: Students will apply BIDMAS (Brackets, Indices, Division, Multiplication, Addition, and Subtraction) to simplify numerical expressions using step-by-step calculations.

$$\begin{aligned} 18^2 - \sqrt{1225} + (72.6 \div -8) \\ = 324 - 35 - 9.08 \\ = 289 - 9.08 \\ = 279.92 \end{aligned}$$

$$\sqrt{1444} + 8^4 - (160.8 \div 16)$$

$$\sqrt{1024} + 6^4 - (120.6 \div 12)$$

$$20^2 - \sqrt{1521} + (99.6 \div -11)$$

$$\sqrt{1296} - 9^3 + (150.6 \div 15)$$

$$\sqrt{1600} - 10^3 + (200.8 \div 20)$$

$$19^2 - \sqrt{1369} + (81.6 \div -9)$$

$$21^2 - \sqrt{1681} + (108.6 \div -12)$$

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Worksheet #4(Answers)

**BIDMAS**

Learning goal: Students will apply BIDMAS (Brackets, Indices, Division, Multiplication, Addition, and Subtraction) to simplify numerical expressions using step-by-step calculations.

$$\begin{aligned}18^2 - \sqrt{1225} + (72.6 \div -8) \\&= 324 - 35 - 9.08 \\&= 289 - 9.08 \\&= 279.92\end{aligned}$$

$$\begin{aligned}\sqrt{1444} + 8^4 - (160.8 \div 16) \\&= 38 + 4096 - 10.05 \\&= 4134 - 10.05 \\&= 4123.95\end{aligned}$$

$$\begin{aligned}\sqrt{1024} + 6^4 - (120.6 \div 12) \\&= 32 + 1296 - 10.05 \\&= 1328 - 10.05 \\&= 1317.95\end{aligned}$$

$$\begin{aligned}20^2 - \sqrt{1521} + (99.6 \div -11) \\&= 400 - 39 - 9.05 \\&= 361 - 9.05 \\&= 351.95\end{aligned}$$

$$\begin{aligned}\sqrt{1296} - 9^3 + (150.6 \div 15) \\&= 36 - 729 + 10.04 \\&= -693 + 10.04 \\&= -682.96\end{aligned}$$

$$\begin{aligned}\sqrt{1600} - 10^3 + (200.8 \div 20) \\&= 40 - 1000 + 10.04 \\&= -960 + 10.04 \\&= -949.96\end{aligned}$$

$$\begin{aligned}19^2 - \sqrt{1369} + (81.6 \div -9) \\&= 361 - 37 - 9.07 \\&= 324 - 9.07 \\&= 314.93\end{aligned}$$

$$\begin{aligned}21^2 - \sqrt{1681} + (108.6 \div -12) \\&= 441 - 41 - 9.05 \\&= 400 - 9.05 \\&= 390.95\end{aligned}$$