

Name: _____

Grade: _____

Score: _____

Worksheet #1



BIDMAS

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

$$\begin{aligned}\sqrt{121} - 4^3 + (20.4 \div 4) \\ = 11 - 64 + 5.1 \\ = -53 + 5.1 \\ = -47.9\end{aligned}$$

$$\sqrt{81} - 2^5 - (15.5 \times 2)$$

$$7^2 - \sqrt{169} + (8.5 \times -3)$$

$$5^2 - \sqrt{49} + (3.6 \times -4)$$

$$\sqrt{400} - 6^3 + (50.4 \div 5)$$

$$\sqrt{256} - 5^3 + (30.6 \div 5)$$

$$12^2 - \sqrt{529} + (24.6 \div -4)$$

$$14^2 - \sqrt{729} + (36.6 \div -6)$$

Name: _____

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Worksheet #1(Answers)



BIDMAS

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

$$\begin{aligned}\sqrt{121} - 4^3 + (20.4 \div 4) \\&= 11 - 64 + 5.1 \\&= -53 + 5.1 \\&= -47.9\end{aligned}$$

$$\begin{aligned}\sqrt{81} - 2^5 - (15.5 \times 2) \\&= 9 + 32 - 31 \\&= 41 - 31 \\&= 10\end{aligned}$$

$$\begin{aligned}7^2 - \sqrt{169} + (8.5 \times -3) \\&= 49 - 13 - 25.5 \\&= 36 - 25.5 \\&= 10.5\end{aligned}$$

$$\begin{aligned}5^2 - \sqrt{49} + (3.6 \times -4) \\&= 25 - 7 - 14.4 \\&= 18 - 14.4 \\&= 3.6\end{aligned}$$

$$\begin{aligned}\sqrt{400} - 6^3 + (50.4 \div 5) \\&= 20 - 216 + 10.08 \\&= -196 + 10.08 \\&= -185.92\end{aligned}$$

$$\begin{aligned}\sqrt{256} - 5^3 + (30.6 \div 5) \\&= 16 - 125 + 6.12 \\&= -109 + 6.12 \\&= -102.88\end{aligned}$$

$$\begin{aligned}12^2 - \sqrt{529} + (24.6 \div -4) \\&= 144 - 23 + 6.15 \\&= 121 - 6.15 \\&= 114.85\end{aligned}$$

$$\begin{aligned}14^2 - \sqrt{729} + (36.6 \div -6) \\&= 196 - 27 - 6.1 \\&= 169 - 6.1 \\&= 162.9\end{aligned}$$