

Name: _____

Grade: _____

Score: _____

Worksheet #5



BIDMAS

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

$$\begin{aligned}\sqrt{1764} + 9^4 - (240.6 \div 24) \\ = 42 + 6561 - 10.03 \\ = 6603 - 10.03 \\ = 6592.97\end{aligned}$$

$$4^3 - \sqrt{100} + (12.6 \div -3)$$

$$2^3 + \sqrt{16} - (5 \times 3.2)$$

$$6^2 - \sqrt{144} + (10.8 \times -2)$$

$$\sqrt{25} - 4^2 + (6.5 \div 2)$$

$$\sqrt{1156} + 7^4 - (140.7 \div 14)$$

$$3^2 - \sqrt{9} + (4.2 \times -2)$$

$$\sqrt{25} - 4^2 + (6.5 \div 2)$$

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Worksheet #5(Answers)

**BIDMAS**

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

$$\begin{aligned}\sqrt{1764} + 9^4 - (240.6 \div 24) \\&= 42 + 6561 - 10.03 \\&= 6603 - 10.03 \\&= 6592.97\end{aligned}$$

$$\begin{aligned}4^3 - \sqrt{100} + (12.6 \div -3) \\&= 64 - 10 - 4.2 \\&= 54 - 4.2 \\&= 49.8\end{aligned}$$

$$\begin{aligned}2^3 + \sqrt{16} - (5 \times 3.2) \\&= 8 + 4 - 16 \\&= 12 - 16 \\&= -4\end{aligned}$$

$$\begin{aligned}6^2 - \sqrt{144} + (10.8 \times -2) \\&= 36 - 12 - 21.6 \\&= 24 - 21.6 \\&= 2.4\end{aligned}$$

$$\begin{aligned}\sqrt{25} - 4^2 + (6.5 \div 2) \\&= 5 - 16 + 3.25 \\&= -11 + 3.25 \\&= -7.75\end{aligned}$$

$$\begin{aligned}\sqrt{1156} + 7^4 - (140.7 \div 14) \\&= 34 + 2401 - 10.05 \\&= 2435 - 10.05 \\&= 2424.95\end{aligned}$$

$$\begin{aligned}3^2 - \sqrt{9} + (4.2 \times -2) \\&= 9 - 3 - 8.4 \\&= 6 - 8.4 \\&= -2.4\end{aligned}$$

$$\begin{aligned}\sqrt{25} - 4^2 + (6.5 \div 2) \\&= 5 - 16 + 3.25 \\&= -11 + 3.25 \\&= -7.75\end{aligned}$$