

Name: \_\_\_\_\_

Grade: \_\_\_\_\_

Score: \_\_\_\_\_

## Worksheet #2



# BIDMAS

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

$$\sqrt{64} - 3^3 + (8.4 \div 2)$$

$$= 8 - 27 + 4.2$$

$$= -19 + 4.2$$

$$= -14.8$$

$$\sqrt{36} + 2^4 - (10.5 \times 2)$$

$$16^2 - \sqrt{961} + (54.6 \div -9)$$

$$17^2 - \sqrt{1089} + (63.6 \div -9)$$

$$\sqrt{196} + 3^4 - (25.5 \times 2)$$

$$\sqrt{324} + 2^6 - (40.8 \div 4)$$

$$8^2 - \sqrt{225} + (12.6 \div -4)$$

$$9^2 - \sqrt{289} + (15.4 \times -2)$$

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## Worksheet #2(Answers)

**BIDMAS**

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

$$\begin{aligned}\sqrt{64} - 3^3 + (8.4 \div 2) \\&= 8 - 27 + 4.2 \\&= -19 + 4.2 \\&= -14.8\end{aligned}$$

$$\begin{aligned}\sqrt{36} + 2^4 - (10.5 \times 2) \\&= 6 + 16 - 21 \\&= 22 - 21 \\&= 1\end{aligned}$$

$$\begin{aligned}16^2 - \sqrt{961} + (54.6 \div -9) \\&= 256 - 31 - 6.07 \\&= 225 - 6.07 \\&= 218.93\end{aligned}$$

$$\begin{aligned}17^2 - \sqrt{1089} + (63.6 \div -9) \\&= 289 - 33 - 7.07 \\&= 256 - 7.07 \\&= 248.96\end{aligned}$$

$$\begin{aligned}\sqrt{196} + 3^4 - (25.5 \times 2) \\&= 14 + 81 - 51 \\&= 95 - 51 \\&= 44\end{aligned}$$

$$\begin{aligned}\sqrt{324} + 2^6 - (40.8 \div 4) \\&= 18 + 64 - 10.2 \\&= 82 - 10.2 \\&= 71.8\end{aligned}$$

$$\begin{aligned}8^2 - \sqrt{225} + (12.6 \div -4) \\&= 64 - 15 - 3.15 \\&= 49 - 3.15 \\&= 45.85\end{aligned}$$

$$\begin{aligned}9^2 - \sqrt{289} + (15.4 \times -2) \\&= 81 - 17 - 30.8 \\&= 64 - 30.8 \\&= 33.2\end{aligned}$$