

Order of Operations (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(-6) \div 3 + 2^3 - (-8)$$

$$10 \div (-2) - (-7) + 6^2$$

$$((-5) + 5 - (-4)^2) \times 3$$

$$(-2) \times 8 + 9^2 - 5$$

$$(8 - (-4) + (-8))^2 \times 4$$

$$(-7) \times (-6) - 6 + 4^2$$

$$(-2)^2 - 6 + (-9) \times (-3)$$

$$(-4)^2 \div 2 \times 10 + 4$$

$$4^2 - (-2) + (-8) \times (-9)$$

$$8 \div ((-8) - (-2) + 5)^3$$

Order of Operations (J) Answers

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Simplify each expression using the correct order of operations.

$$\begin{aligned} & (-6) \div 3 + 2^3 - (-8) \\ & = \underline{(-6) \div 3} + 8 - (-8) \\ & = \underline{(-2) + 8} - (-8) \\ & = \underline{6 - (-8)} \\ & = 14 \end{aligned}$$

$$\begin{aligned} & 10 \div (-2) - (-7) + 6^2 \\ & = \underline{10 \div (-2)} - (-7) + 36 \\ & = \underline{(-5) - (-7)} + 36 \\ & = \underline{2 + 36} \\ & = 38 \end{aligned}$$

$$\begin{aligned} & ((-5) + 5 - (-4)^2) \times 3 \\ & = \underline{((-5) + 5 - 16)} \times 3 \\ & = \underline{(0 - 16)} \times 3 \\ & = \underline{(-16) \times 3} \\ & = -48 \end{aligned}$$

$$\begin{aligned} & (-2) \times 8 + 9^2 - 5 \\ & = \underline{(-2) \times 8} + 81 - 5 \\ & = \underline{(-16) + 81} - 5 \\ & = \underline{65 - 5} \\ & = 60 \end{aligned}$$

$$\begin{aligned} & (8 - (-4) + (-8))^2 \times 4 \\ & = \underline{(12 + (-8))}^2 \times 4 \\ & = \underline{4^2} \times 4 \\ & = \underline{16 \times 4} \\ & = 64 \end{aligned}$$

$$\begin{aligned} & (-7) \times (-6) - 6 + 4^2 \\ & = \underline{(-7) \times (-6)} - 6 + 16 \\ & = \underline{42 - 6} + 16 \\ & = \underline{36 + 16} \\ & = 52 \end{aligned}$$

$$\begin{aligned} & (-2)^2 - 6 + (-9) \times (-3) \\ & = 4 - 6 + \underline{(-9) \times (-3)} \\ & = \underline{4 - 6} + 27 \\ & = \underline{(-2) + 27} \\ & = 25 \end{aligned}$$

$$\begin{aligned} & (-4)^2 \div 2 \times 10 + 4 \\ & = \underline{16 \div 2} \times 10 + 4 \\ & = \underline{8 \times 10} + 4 \\ & = \underline{80 + 4} \\ & = 84 \end{aligned}$$

$$\begin{aligned} & 4^2 - (-2) + (-8) \times (-9) \\ & = 16 - (-2) + \underline{(-8) \times (-9)} \\ & = \underline{16 - (-2)} + 72 \\ & = \underline{18 + 72} \\ & = 90 \end{aligned}$$

$$\begin{aligned} & 8 \div \left(\underline{(-8) - (-2)} + 5 \right)^3 \\ & = 8 \div \left(\underline{(-6) + 5} \right)^3 \\ & = 8 \div \underline{(-1)^3} \\ & = \underline{8 \div (-1)} \\ & = -8 \end{aligned}$$