

Order of Operations (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(8 - (-2)^2 + (-4)) \div (-5) \times 3$$

$$((-8) \times ((-4) - (-5) + (-9))) \div 8^2$$

$$(3 + 7^2) \div (-4) \times (-3) - 6$$

$$8^2 - 10 + 6 \times ((-8) \div (-4))$$

$$(6 - (-9) + 9^2) \div (8 \times (-3))$$

$$3 \div ((-8) - (-9))^3 \times 5 + (-6)$$

Order of Operations (J) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (8 - \underline{(-2)^2} + (-4)) \div (-5) \times 3 \\ &= \underline{(8 - 4} + (-4)) \div (-5) \times 3 \\ &= \underline{(4 + (-4))} \div (-5) \times 3 \\ &= \underline{0 \div (-5)} \times 3 \\ &= \underline{0 \times 3} \\ &= 0 \end{aligned}$$

$$\begin{aligned} & ((-8) \times (\underline{(-4) - (-5)} + (-9))) \div 8^2 \\ &= ((-8) \times \underline{(1 + (-9))}) \div 8^2 \\ &= \underline{((-8) \times (-8))} \div 8^2 \\ &= 64 \div \underline{8^2} \\ &= \underline{64 \div 64} \\ &= 1 \end{aligned}$$

$$\begin{aligned} & (3 + \underline{7^2}) \div (-4) \times (-3) - 6 \\ &= \underline{(3 + 49)} \div (-4) \times (-3) - 6 \\ &= \underline{52 \div (-4)} \times (-3) - 6 \\ &= \underline{(-13) \times (-3)} - 6 \\ &= \underline{39 - 6} \\ &= 33 \end{aligned}$$

$$\begin{aligned} & 8^2 - 10 + 6 \times (\underline{(-8) \div (-4)}) \\ &= \underline{8^2} - 10 + 6 \times 2 \\ &= 64 - 10 + \underline{6 \times 2} \\ &= \underline{64 - 10} + 12 \\ &= \underline{54 + 12} \\ &= 66 \end{aligned}$$

$$\begin{aligned} & (6 - (-9) + \underline{9^2}) \div (8 \times (-3)) \\ &= \underline{(6 - (-9) + 81)} \div (8 \times (-3)) \\ &= \underline{(15 + 81)} \div (8 \times (-3)) \\ &= 96 \div \underline{(8 \times (-3))} \\ &= \underline{96 \div (-24)} \\ &= -4 \end{aligned}$$

$$\begin{aligned} & 3 \div (\underline{(-8) - (-9)})^3 \times 5 + (-6) \\ &= 3 \div \underline{1^3} \times 5 + (-6) \\ &= \underline{3 \div 1} \times 5 + (-6) \\ &= \underline{3 \times 5} + (-6) \\ &= \underline{15 + (-6)} \\ &= 9 \end{aligned}$$