

Order of Operations (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(4^2 - 7 + (-9))^3 \div (2 \times 8)$$

$$((-2) - 2^2) \times ((-3) + (-5)) \div ((-9) + 6)$$

$$(10 \div ((-7) - (-8))) \times (-10) + 8^2 + (-5)$$

$$(((-9) + 9) \times 3) \div (8 - 5)^3 \div 4$$

$$(6 + (-5)) \div (8 - 7) \times (-3) + (-9)^2$$

$$((-6) \times (10 - 2 + (-8))^3) \div 8^2$$

Order of Operations (C) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (4^2 - 7 + (-9))^3 \div (2 \times 8) \\ & = (16 - 7 + (-9))^3 \div (2 \times 8) \\ & = (9 + (-9))^3 \div (2 \times 8) \\ & = 0^3 \div (2 \times 8) \\ & = 0^3 \div 16 \\ & = 0 \div 16 \\ & = 0 \end{aligned}$$

$$\begin{aligned} & ((-2) - 2^2) \times ((-3) + (-5)) \div ((-9) + 6) \\ & = ((-2) - 4) \times ((-3) + (-5)) \div ((-9) + 6) \\ & = (-6) \times ((-3) + (-5)) \div ((-9) + 6) \\ & = (-6) \times (-8) \div ((-9) + 6) \\ & = (-6) \times (-8) \div (-3) \\ & = 48 \div (-3) \\ & = -16 \end{aligned}$$

$$\begin{aligned} & (10 \div ((-7) - (-8))) \times (-10) + 8^2 + (-5) \\ & = (10 \div 1) \times (-10) + 8^2 + (-5) \\ & = 10 \times (-10) + 8^2 + (-5) \\ & = 10 \times (-10) + 64 + (-5) \\ & = (-100) + 64 + (-5) \\ & = (-36) + (-5) \\ & = -41 \end{aligned}$$

$$\begin{aligned} & (((-9) + 9) \times 3) \div (8 - 5)^3 \div 4 \\ & = (0 \times 3) \div (8 - 5)^3 \div 4 \\ & = 0 \div (8 - 5)^3 \div 4 \\ & = 0 \div 3^3 \div 4 \\ & = 0 \div 27 \div 4 \\ & = 0 \div 4 \\ & = 0 \end{aligned}$$

$$\begin{aligned} & (6 + (-5)) \div (8 - 7) \times (-3) + (-9)^2 \\ & = 1 \div (8 - 7) \times (-3) + (-9)^2 \\ & = 1 \div 1 \times (-3) + (-9)^2 \\ & = 1 \div 1 \times (-3) + 81 \\ & = 1 \times (-3) + 81 \\ & = (-3) + 81 \\ & = 78 \end{aligned}$$

$$\begin{aligned} & ((-6) \times (10 - 2 + (-8)))^3 \div 8^2 \\ & = ((-6) \times (8 + (-8)))^3 \div 8^2 \\ & = ((-6) \times 0^3) \div 8^2 \\ & = ((-6) \times 0) \div 8^2 \\ & = 0 \div 8^2 \\ & = 0 \div 64 \\ & = 0 \end{aligned}$$