Order of Operations (C)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

Order of Operations (C) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$(4^2 - 7 + (-9))^3 \div (2 \times 8)$
$= (16 - 7 + (-9))^3 \div (2 \times 8)$
$= \left(9 + (-9)\right)^3 \div (2 \times 8)$
$= 0^3 \div (2 \times 8)$
$= 0^3 \div 16$
$= 0 \div 16$
$= 0$

$((-2) - 2^2) \times ((-3) + (-5)) \div ((-9) + 6)$
$= \left((-2) - 4\right) \times ((-3) + (-5)) \div ((-9) + 6)$
$= (-6) \times \left((-3) + (-5)\right) \div ((-9) + 6)$
$= (-6) \times (-8) \div \left((-9) + 6\right)$
$= (-6) \times (-8) \div (-3)$
$= 48 \div (-3)$
$= -16$

$\left(10 \div \left((-7) - (-8)\right)\right) \times (-10) + 8^2 + (-5)$
$= (10 \div 1) \times (-10) + 8^2 + (-5)$
$= 10 \times (-10) + 8^2 + (-5)$
$= 10 \times (-10) + 64 + (-5)$
$= (-100) + 64 + (-5)$
$= (-36) + (-5)$
$= -41$

$\left(\left((-9) + 9\right) \times 3\right) \div (8 - 5)^3 \div 4$
$= (0 \times 3) \div (8 - 5)^3 \div 4$
$= 0 \div (8 - 5)^3 \div 4$
$= 0 \div 3^3 \div 4$
$= 0 \div 27 \div 4$
$= 0 \div 4$
$= 0$

$\left(6 + (-5)\right) \div (8 - 7) \times (-3) + (-9)^2$
$= 1 \div (8 - 7) \times (-3) + (-9)^2$
$= 1 \div 1 \times (-3) + (-9)^2$
$= 1 \div 1 \times (-3) + 81$
$= 1 \times (-3) + 81$
$= (-3) + 81$
$= 78$

$\left((-6) \times (10 - 2 + (-8))^3\right) \div 8^2$
$= \left((-6) \times \left(8 + (-8)\right)^3\right) \div 8^2$
$= \left((-6) \times 0^3\right) \div 8^2$
$= \left((-6) \times 0\right) \div 8^2$
$= 0 \div 8^2$
$= 0 \div 64$
$= 0$