Order of Operations (I)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$\left((-10) + 4^2 \div 2 - 3\right) \times 8$

$(-10) \div \left(3^2 - (-3) + (-7)\right) \times (-9)$

$\left(2 \times (-10) + (-3)^2 - (-4)\right) \div (-7)$

$(8 + (-8)) \div \left((-4)^2 - (-5) \times 7\right)$

$(-4) \times \left(2 + 3^2 \div 9 - 6\right)$

Order of Operations (I) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$= \left(4 \times 3\right) \div ((-9) - 5 + 2)$

$= 12 \div \left((-9) - 5 + 2\right)$

$= 12 \div \left((-14) + 2\right)$

$= 12 \div (-12)$

$= -1$

$((-10) + 4^2 \div 2 - 3) \times 8$

$= ((-10) + 16 \div 2 - 3) \times 8$

$= \left((-10) + 8 - 3\right) \times 8$

$= \left((-2) - 3\right) \times 8$

$= (-5) \times 8$

$= -40$

$(-10) \div (3^2 - (-3) + (-7)) \times (-9)$

$= (-10) \div \left(9 - (-3) + (-7)\right) \times (-9)$

$= (-10) \div \left(12 + (-7)\right) \times (-9)$

$= (-10) \div 5 \times (-9)$

$= (-2) \times (-9)$

$= 18$

$\left(2 \times (-10) + (-3)^2 - (-4)\right) \div (-7)$

$= \left(2 \times (-10) + 9 - (-4)\right) \div (-7)$

$= \left((-20) + 9 - (-4)\right) \div (-7)$

$= \left((-11) - (-4)\right) \div (-7)$

$= (-7) \div (-7)$

$= 1$

$\left(8 + (-8)\right) \div \left((-4)^2 - (-5) \times 7\right)$

$= 0 \div \left((-4)^2 - (-5) \times 7\right)$

$= 0 \div \left(16 - (-5) \times 7\right)$

$= 0 \div \left(16 - (-35)\right)$

$= 0 \div 51$

$= 0$

$(-4) \times (2 + 3^2 \div 9 - 6)$

$= (-4) \times (2 + 9 \div 9 - 6)$

$= (-4) \times (2 + 1 - 6)$

$= (-4) \times (3 - 6)$

$= (-4) \times (-3)$

$= 12$