Order of Operations (F)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$10^2 \div ((5 + (-6) - (-3)) \times ((-9) - (-8)))$

$(9 \div 3) \times \left((-3) + (-6)^2 - (-7) - 7\right)$

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

$((-8) \times (-10)) \div \left(8 - (-2) + (-9) - 3^2\right)$

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

$(-3) \times \left(7 - 2 + (-2)^2\right) \div ((-5) + 4)$

Order of Operations (F) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$10^2 \div \left(\left(5 + (-6) - (-3)\right) \times \left((-9) - (-8)\right)\right)$

$= 10^2 \div \left(\left((-1) - (-3)\right) \times \left((-9) - (-8)\right)\right)$

$= 10^2 \div \left(2 \times \left((-9) - (-8)\right)\right)$

$= 10^2 \div \left(2 \times (-1)\right)$

$= 10^2 \div (-2)$

$= 100 \div (-2)$

$= -50$

$\left(9 \div 3\right) \times \left((-3) + (-6)^2 - (-7) - 7\right)$

$= 3 \times \left((-3) + (-6)^2 - (-7) - 7\right)$

$= 3 \times \left((-3) + 36 - (-7) - 7\right)$

$= 3 \times \left(33 - (-7) - 7\right)$

$= 3 \times (40 - 7)$

$= 3 \times 33$

$= 99$

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

$= \left(3 - 100 + (-3)\right) \times \left((-6) \div 6\right)^2$

$= \left((-97) + (-3)\right) \times \left((-6) \div 6\right)^2$

$= (-100) \times \left((-6) \div 6\right)^2$

$= (-100) \times (-1)^2$

$= (-100) \times 1$

$= -100$

$\left((-8) \times (-10)\right) \div \left(8 - (-2) + (-9) - 3^2\right)$

$= 80 \div \left(8 - (-2) + (-9) - 3^2\right)$

$= 80 \div \left(8 - (-2) + (-9) - 9\right)$

$= 80 \div \left(10 + (-9) - 9\right)$

$= 80 \div (1 - 9)$

$= 80 \div (-8)$

$= -10$

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

$= 1^3 \times \left((-6)^2 \div (4 - 5)\right)$

$= 1^3 \times \left((-6)^2 \div (-1)\right)$

$= 1^3 \times \left(36 \div (-1)\right)$

$= 1^3 \times (-36)$

$= 1 \times (-36)$

$= -36$

$(-3) \times \left(7 - 2 + (-2)^2\right) \div \left((-5) + 4\right)$

$= (-3) \times \left(7 - 2 + 4\right) \div \left((-5) + 4\right)$

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

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

$= (-3) \times 9 \div (-1)$

$= (-27) \div (-1)$

$= 27$