Order of Operations (G)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

$(6 \div (7+(-10))) \times (2-4) \times 3^2$

$8 \div ((-2)-(-6)) \times (9+(-9)) \times (-4)^2$

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

$((6-10) \div 2) \times (-4) + 9 - 8^2$

Order of Operations (G) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$= (-5)^2 \times (-1)^3 \div ((-3)+(-2))$

$= (-5)^2 \times (-1)^3 \div (-5)$

$= 25 \times (-1)^3 \div (-5)$

$= 25 \times (-1) \div (-5)$

$= (-25) \div (-5)$

$= 5$

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

$= (8 \div (-8))^2 \times (2-(-4)-4)$

$= (-1)^2 \times (2-(-4)-4)$

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

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

$= 1 \times 2$

$= 2$

$(6 \div (7+(-10))) \times (2-4) \times 3^2$

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

$= (-2) \times (2-4) \times 3^2$

$= (-2) \times (-2) \times 3^2$

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

$= 4 \times 9$

$= 36$

$8 \div ((-2)-(-6)) \times (9+(-9)) \times (-4)^2$

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

$= 8 \div 4 \times 0 \times (-4)^2$

$= 8 \div 4 \times 0 \times 16$

$= 2 \times 0 \times 16$

$= 0 \times 16$

$= 0$

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

$= 0^3 \times (-4) \div ((-9)-9) \times (-3)$

$= 0^3 \times (-4) \div (-18) \times (-3)$

$= 0 \times (-4) \div (-18) \times (-3)$

$= 0 \div (-18) \times (-3)$

$= 0 \times (-3)$

$= 0$

$((6-10) \div 2) \times (-4) + 9 - 8^2$

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

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

$= (-2) \times (-4) + 9 - 64$

$= 8 + 9 - 64$

$= 17 - 64$

$= -47$