Order of Operations (H)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

$\left(6^2 \div ((-7)-(-5)+4)^2\right) \times 9$

$\left((-3)^3-(-5)\right) \times \left((-8) \div (5+(-7))^2\right)$

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

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

Order of Operations (H) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

$= (49 \div 7^2) \times (7+(-6))$

$= (49 \div 49) \times (7+(-6))$

$= 1 \times \left(7+(-6)\right)$

$= 1 \times 1$

$= 1$

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

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

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

$= (-7) \times \left(8 \div (-2)^2\right)$

$= (-7) \times (8 \div 4)$

$= (-7) \times 2$

$= -14$

$\left(6^2 \div \left((-7)-(-5)+4\right)^2\right) \times 9$

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

$= (6^2 \div 2^2) \times 9$

$= (36 \div 2^2) \times 9$

$= (36 \div 4) \times 9$

$= 9 \times 9$

$= 81$

$\left((-3)^3-(-5)\right) \times \left((-8) \div (5+(-7))^2\right)$

$= \left((-27)-(-5)\right) \times \left((-8) \div (5+(-7))^2\right)$

$= (-22) \times \left((-8) \div \left(5+(-7)\right)^2\right)$

$= (-22) \times \left((-8) \div (-2)^2\right)$

$= (-22) \times \left((-8) \div 4\right)$

$= (-22) \times (-2)$

$= 44$

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

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

$= 0^3 \div ((-8) \times (4+7))$

$= 0^3 \div \left((-8) \times 11\right)$

$= 0^3 \div (-88)$

$= 0 \div (-88)$

$= 0$

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

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

$= \left((-3)^2 \times 0^2\right) \div 7$

$= (9 \times 0^2) \div 7$

$= (9 \times 0) \div 7$

$= 0 \div 7$

$= 0$