Order of Operations (A)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(-5)^2 - 4 \times (6 \div ((-7) + 8)) \times 3$

$((-9) + 7)^3 \times (-5) \div ((4 - (-6)) \times 2)$

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

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

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

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

Order of Operations (A) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(-5)^2 - 4 \times \left(6 \div \left((-7) + 8\right)\right) \times 3$

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

$= (-5)^2 - 4 \times 6 \times 3$

$= 25 - 4 \times 6 \times 3$

$= 25 - 24 \times 3$

$= 25 - 72$

$= -47$

$\left((-9) + 7\right)^3 \times (-5) \div ((4 - (-6)) \times 2)$

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

$= (-2)^3 \times (-5) \div (10 \times 2)$

$= (-2)^3 \times (-5) \div 20$

$= (-8) \times (-5) \div 20$

$= 40 \div 20$

$= 2$

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

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

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

$= (-12) \div 3 + (-4)^2$

$= (-12) \div 3 + 16$

$= (-4) + 16$

$= 12$

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

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

$= 0 \div (-9)^2 \times (8 - 9)$

$= 0 \div (-9)^2 \times (-1)$

$= 0 \div 81 \times (-1)$

$= 0 \times (-1)$

$= 0$

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

$= (2 - 7)^2 \times (5 \div (-5))^2$

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

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

$= 25 \times (-1)^2$

$= 25 \times 1$

$= 25$

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

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

$= (-9)^2 \div 3 - (-9)^2$

$= 81 \div 3 - (-9)^2$

$= 81 \div 3 - 81$

$= 27 - 81$

$= -54$