Order of Operations with Decimals (H)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((-1{,}6)^2 - 1{,}8\right) \div (-0{,}4) \times (-8{,}5)$

$(-6{,}9)^2 + 7{,}5 \times (2{,}9 - (-3{,}2))$

$(8{,}6 - (-2{,}6)) \times (-4{,}7) + (-3{,}3)^2$

$(9{,}6 - 6{,}9) \times (-1{,}7) + (6{,}2)^2$

$(-3{,}7) \times ((-7{,}3) + (-1{,}6) - (-6{,}9))^2$

$((-5{,}5) + (-3{,}7) - 7{,}8) \times (-0{,}3)^2$

$(-1{,}5) \times \left((-9{,}6) + (-3{,}1) - (1{,}8)^2\right)$

$0{,}4 \times ((1{,}4 + (-1{,}4)) \div (-9{,}4))^3$

Order of Operations with Decimals (H) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(\underline{(-1{,}6)^2} - 1{,}8\right) \div (-0{,}4) \times (-8{,}5)$

$= \left(\underline{2{,}56 - 1{,}8}\right) \div (-0{,}4) \times (-8{,}5)$

$= \underline{0{,}76 \div (-0{,}4)} \times (-8{,}5)$

$= \underline{(-1{,}9) \times (-8{,}5)}$

$= 16{,}15$

$(-6{,}9)^2 + 7{,}5 \times \left(\underline{2{,}9 - (-3{,}2)}\right)$

$= \underline{(-6{,}9)^2} + 7{,}5 \times 6{,}1$

$= 47{,}61 + \underline{7{,}5 \times 6{,}1}$

$= \underline{47{,}61 + 45{,}75}$

$= 93{,}36$

$\left(\underline{8{,}6 - (-2{,}6)}\right) \times (-4{,}7) + (-3{,}3)^2$

$= 11{,}2 \times (-4{,}7) + \underline{(-3{,}3)^2}$

$= \underline{11{,}2 \times (-4{,}7)} + 10{,}89$

$= \underline{(-52{,}64) + 10{,}89}$

$= -41{,}75$

$\left(\underline{9{,}6 - 6{,}9}\right) \times (-1{,}7) + (6{,}2)^2$

$= 2{,}7 \times (-1{,}7) + \underline{(6{,}2)^2}$

$= \underline{2{,}7 \times (-1{,}7)} + 38{,}44$

$= \underline{(-4{,}59) + 38{,}44}$

$= 33{,}85$

$(-3{,}7) \times \left(\underline{(-7{,}3) + (-1{,}6)} - (-6{,}9)\right)^2$

$= (-3{,}7) \times \left(\underline{(-8{,}9) - (-6{,}9)}\right)^2$

$= (-3{,}7) \times \underline{(-2)^2}$

$= \underline{(-3{,}7) \times 4}$

$= -14{,}8$

$\left(\underline{(-5{,}5) + (-3{,}7)} - 7{,}8\right) \times (-0{,}3)^2$

$= \left(\underline{(-9{,}2) - 7{,}8}\right) \times (-0{,}3)^2$

$= (-17) \times \underline{(-0{,}3)^2}$

$= \underline{(-17) \times 0{,}09}$

$= -1{,}53$

$(-1{,}5) \times \left((-9{,}6) + (-3{,}1) - \underline{(1{,}8)^2}\right)$

$= (-1{,}5) \times \left(\underline{(-9{,}6) + (-3{,}1)} - 3{,}24\right)$

$= (-1{,}5) \times \left(\underline{(-12{,}7) - 3{,}24}\right)$

$= \underline{(-1{,}5) \times (-15{,}94)}$

$= 23{,}91$

$0{,}4 \times \left(\left(\underline{1{,}4 + (-1{,}4)}\right) \div (-9{,}4)\right)^3$

$= 0{,}4 \times \left(\underline{0 \div (-9{,}4)}\right)^3$

$= 0{,}4 \times \underline{0^3}$

$= \underline{0{,}4 \times 0}$

$= 0$