Order of Operations with Decimals (F)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$2{,}8 \times \left((3{,}5)^2 - 2{,}7 + 5{,}4\right)$

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

$(-5{,}5)^2 + (-4{,}3) \times ((-7{,}1) - (-3{,}9))$

$\left((-7{,}5)^2 - (-9{,}9)\right) \times (-0{,}8) + 5{,}1$

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

$(3{,}9)^2 - (-3{,}9) \times ((-0{,}7) + 2{,}5)$

$((-3{,}8) - 4{,}4) \times (-0{,}5)^2 + (-6{,}8)$

$9{,}6 \times (((-6{,}7) + 6{,}9) \div (-0{,}2))^2$

Order of Operations with Decimals (F) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$2{,}8 \times \left(\underline{(3{,}5)^2} - 2{,}7 + 5{,}4\right)$

$= 2{,}8 \times \left(\underline{12{,}25 - 2{,}7} + 5{,}4\right)$

$= 2{,}8 \times \left(\underline{9{,}55 + 5{,}4}\right)$

$= \underline{2{,}8 \times 14{,}95}$

$= 41{,}86$

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

$= \underline{(-0{,}8)^2} - 4{,}1 \times (-6)$

$= 0{,}64 - \underline{4{,}1 \times (-6)}$

$= \underline{0{,}64 - (-24{,}6)}$

$= 25{,}24$

$(-5{,}5)^2 + (-4{,}3) \times \left(\underline{(-7{,}1) - (-3{,}9)}\right)$

$= \underline{(-5{,}5)^2} + (-4{,}3) \times (-3{,}2)$

$= 30{,}25 + \underline{(-4{,}3) \times (-3{,}2)}$

$= \underline{30{,}25 + 13{,}76}$

$= 44{,}01$

$\left(\underline{(-7{,}5)^2} - (-9{,}9)\right) \times (-0{,}8) + 5{,}1$

$= \left(\underline{56{,}25 - (-9{,}9)}\right) \times (-0{,}8) + 5{,}1$

$= \underline{66{,}15 \times (-0{,}8)} + 5{,}1$

$= \underline{(-52{,}92) + 5{,}1}$

$= -47{,}82$

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

$= (2{,}5)^2 \times \left(\underline{0 - (-9{,}8)}\right)$

$= \underline{(2{,}5)^2} \times 9{,}8$

$= \underline{6{,}25 \times 9{,}8}$

$= 61{,}25$

$(3{,}9)^2 - (-3{,}9) \times \left(\underline{(-0{,}7) + 2{,}5}\right)$

$= \underline{(3{,}9)^2} - (-3{,}9) \times 1{,}8$

$= 15{,}21 - \underline{(-3{,}9) \times 1{,}8}$

$= \underline{15{,}21 - (-7{,}02)}$

$= 22{,}23$

$\left(\underline{(-3{,}8) - 4{,}4}\right) \times (-0{,}5)^2 + (-6{,}8)$

$= (-8{,}2) \times \underline{(-0{,}5)^2} + (-6{,}8)$

$= \underline{(-8{,}2) \times 0{,}25} + (-6{,}8)$

$= \underline{(-2{,}05) + (-6{,}8)}$

$= -8{,}85$

$9{,}6 \times \left(\left(\underline{(-6{,}7) + 6{,}9}\right) \div (-0{,}2)\right)^2$

$= 9{,}6 \times \left(\underline{0{,}2 \div (-0{,}2)}\right)^2$

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

$= \underline{9{,}6 \times 1}$

$= 9{,}6$