Order of Operations with Decimals (J)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$((-8{,}1) - (-9{,}1))^3 \times 0{,}2 + 5{,}1$

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

$7{,}4 \times \left(0{,}9 + 8{,}7 - (-2{,}5)^2\right)$

$(6{,}3 \times 0{,}4) \div (-0{,}2) - (2{,}1)^2$

$\left(1{,}5 - (-2{,}7)^2\right) \times (8{,}3 + (-5{,}3))$

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

$((-0{,}8) + (-3{,}9) - (-1{,}1))^2 \times 2{,}5$

Order of Operations with Decimals (J) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$= \left(\underline{(-7{,}2) + (-3{,}9)} - 6{,}25\right) \times (-5{,}2)$

$= \left(\underline{(-11{,}1) - 6{,}25}\right) \times (-5{,}2)$

$= \underline{(-17{,}35) \times (-5{,}2)}$

$= 90{,}22$

$\left(\underline{(-8{,}1) - (-9{,}1)}\right)^3 \times 0{,}2 + 5{,}1$

$= \underline{1^3} \times 0{,}2 + 5{,}1$

$= \underline{1 \times 0{,}2} + 5{,}1$

$= \underline{0{,}2 + 5{,}1}$

$= 5{,}3$

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

$= (-3{,}5) \times \left(\underline{2{,}5 - (-6{,}1)} + 6{,}76\right)$

$= (-3{,}5) \times \left(\underline{8{,}6 + 6{,}76}\right)$

$= \underline{(-3{,}5) \times 15{,}36}$

$= -53{,}76$

$7{,}4 \times \left(0{,}9 + 8{,}7 - \underline{(-2{,}5)^2}\right)$

$= 7{,}4 \times \left(\underline{0{,}9 + 8{,}7} - 6{,}25\right)$

$= 7{,}4 \times \left(\underline{9{,}6 - 6{,}25}\right)$

$= \underline{7{,}4 \times 3{,}35}$

$= 24{,}79$

$\left(\underline{6{,}3 \times 0{,}4}\right) \div (-0{,}2) - (2{,}1)^2$

$= 2{,}52 \div (-0{,}2) - \underline{(2{,}1)^2}$

$= \underline{2{,}52 \div (-0{,}2)} - 4{,}41$

$= \underline{(-12{,}6) - 4{,}41}$

$= -17{,}01$

$\left(1{,}5 - \underline{(-2{,}7)^2}\right) \times (8{,}3 + (-5{,}3))$

$= \left(\underline{1{,}5 - 7{,}29}\right) \times (8{,}3 + (-5{,}3))$

$= (-5{,}79) \times \left(\underline{8{,}3 + (-5{,}3)}\right)$

$= \underline{(-5{,}79) \times 3}$

$= -17{,}37$

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

$= \left(\underline{8{,}3 + 19{,}36}\right) \div (-0{,}5) - (-4{,}6)$

$= \underline{27{,}66 \div (-0{,}5)} - (-4{,}6)$

$= \underline{(-55{,}32) - (-4{,}6)}$

$= -50{,}72$

$\left(\underline{(-0{,}8) + (-3{,}9)} - (-1{,}1)\right)^2 \times 2{,}5$

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

$= \underline{(-3{,}6)^2} \times 2{,}5$

$= \underline{12{,}96 \times 2{,}5}$

$= 32{,}4$