Order of Operations with Decimals (A)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((-6{,}6) + (-9{,}2) - (-6{,}4)^2\right) \div 2{,}2$

$(-1{,}8)^2 + 2{,}5 \times ((-4{,}5) - (-7{,}7))$

$\left((-7{,}2)^2 - 6{,}4\right) \times (1{,}8 + (-0{,}8))$

$(9{,}5 - (-0{,}1)) \times (2{,}5)^2 + (-3{,}7)$

$\left((-4{,}1) + (-8{,}6) - (0{,}5)^2\right) \times 7{,}2$

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

$\left(3{,}1 + (-7{,}3) - (0{,}5)^2\right) \times (-2{,}6)$

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

Order of Operations with Decimals (A) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((-6{,}6) + (-9{,}2) - \underline{(-6{,}4)^2}\right) \div 2{,}2$

$= \left(\underline{(-6{,}6) + (-9{,}2)} - 40{,}96\right) \div 2{,}2$

$= \left(\underline{(-15{,}8) - 40{,}96}\right) \div 2{,}2$

$= \underline{(-56{,}76) \div 2{,}2}$

$= -25{,}8$

$(-1{,}8)^2 + 2{,}5 \times \left(\underline{(-4{,}5) - (-7{,}7)}\right)$

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

$= 3{,}24 + \underline{2{,}5 \times 3{,}2}$

$= \underline{3{,}24 + 8}$

$= 11{,}24$

$\left(\underline{(-7{,}2)^2} - 6{,}4\right) \times (1{,}8 + (-0{,}8))$

$= \left(\underline{51{,}84 - 6{,}4}\right) \times (1{,}8 + (-0{,}8))$

$= 45{,}44 \times \left(\underline{1{,}8 + (-0{,}8)}\right)$

$= \underline{45{,}44 \times 1}$

$= 45{,}44$

$\left(\underline{9{,}5 - (-0{,}1)}\right) \times (2{,}5)^2 + (-3{,}7)$

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

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

$= \underline{60 + (-3{,}7)}$

$= 56{,}3$

$\left((-4{,}1) + (-8{,}6) - \underline{(0{,}5)^2}\right) \times 7{,}2$

$= \left(\underline{(-4{,}1) + (-8{,}6)} - 0{,}25\right) \times 7{,}2$

$= \left(\underline{(-12{,}7) - 0{,}25}\right) \times 7{,}2$

$= \underline{(-12{,}95) \times 7{,}2}$

$= -93{,}24$

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

$= 10{,}7 \times \left(\underline{1{,}2 - 2{,}2}\right)^2$

$= 10{,}7 \times \underline{(-1)^2}$

$= \underline{10{,}7 \times 1}$

$= 10{,}7$

$\left(3{,}1 + (-7{,}3) - \underline{(0{,}5)^2}\right) \times (-2{,}6)$

$= \left(\underline{3{,}1 + (-7{,}3)} - 0{,}25\right) \times (-2{,}6)$

$= \left(\underline{(-4{,}2) - 0{,}25}\right) \times (-2{,}6)$

$= \underline{(-4{,}45) \times (-2{,}6)}$

$= 11{,}57$

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

$= \left(\underline{2{,}2 + 0{,}36} - 1{,}4\right) \times (-2{,}5)$

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

$= \underline{1{,}16 \times (-2{,}5)}$

$= -2{,}9$

Order of Operations with Decimals (B)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$\left((-2{,}4)^2 \div (-1{,}6) + 8{,}8\right) \times (-1{,}9)$

$\left((-3{,}7)^2 - 8{,}8\right) \times ((-6{,}8) + (-1{,}2))$

$(-7{,}3) + (9{,}4)^2 \div (4{,}7 \times 1{,}6)$

$((-0{,}5) + (-1{,}7) - (-9{,}9))^2 \div (-1{,}4)$

$(6{,}1 + (-1{,}1)) \times ((-6{,}8) - (-2{,}7))^2$

$2{,}8 \times \left((2{,}5)^2 + 9{,}6 \div (-6{,}4)\right)$

$0{,}4 - (-1{,}7) \times ((-3{,}6) + 1{,}6)^3$

Order of Operations with Decimals (B) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$5{,}2 \times \left(\underline{(0{,}5)^2} + 9{,}7 - 2{,}7\right)$
$= 5{,}2 \times \left(\underline{0{,}25 + 9{,}7} - 2{,}7\right)$
$= 5{,}2 \times \left(\underline{9{,}95 - 2{,}7}\right)$
$= \underline{5{,}2 \times 7{,}25}$
$= 37{,}7$

$\left(\underline{(-2{,}4)^2} \div (-1{,}6) + 8{,}8\right) \times (-1{,}9)$
$= \left(\underline{5{,}76 \div (-1{,}6)} + 8{,}8\right) \times (-1{,}9)$
$= \left(\underline{(-3{,}6) + 8{,}8}\right) \times (-1{,}9)$
$= \underline{5{,}2 \times (-1{,}9)}$
$= -9{,}88$

$\left(\underline{(-3{,}7)^2} - 8{,}8\right) \times ((-6{,}8) + (-1{,}2))$
$= \left(\underline{13{,}69 - 8{,}8}\right) \times ((-6{,}8) + (-1{,}2))$
$= 4{,}89 \times \left(\underline{(-6{,}8) + (-1{,}2)}\right)$
$= \underline{4{,}89 \times (-8)}$
$= -39{,}12$

$(-7{,}3) + (9{,}4)^2 \div \left(\underline{4{,}7 \times 1{,}6}\right)$
$= (-7{,}3) + \underline{(9{,}4)^2} \div 7{,}52$
$= (-7{,}3) + \underline{88{,}36 \div 7{,}52}$
$= \underline{(-7{,}3) + 11{,}75}$
$= 4{,}45$

$\left(\underline{(-0{,}5) + (-1{,}7)} - (-9{,}9)\right)^2 \div (-1{,}4)$
$= \left(\underline{(-2{,}2) - (-9{,}9)}\right)^2 \div (-1{,}4)$
$= \underline{(7{,}7)^2} \div (-1{,}4)$
$= \underline{59{,}29 \div (-1{,}4)}$
$= -42{,}35$

$\left(\underline{6{,}1 + (-1{,}1)}\right) \times ((-6{,}8) - (-2{,}7))^2$
$= 5 \times \left(\underline{(-6{,}8) - (-2{,}7)}\right)^2$
$= 5 \times \underline{(-4{,}1)^2}$
$= \underline{5 \times 16{,}81}$
$= 84{,}05$

$2{,}8 \times \left(\underline{(2{,}5)^2} + 9{,}6 \div (-6{,}4)\right)$
$= 2{,}8 \times \left(6{,}25 + \underline{9{,}6 \div (-6{,}4)}\right)$
$= 2{,}8 \times \left(\underline{6{,}25 + (-1{,}5)}\right)$
$= \underline{2{,}8 \times 4{,}75}$
$= 13{,}3$

$0{,}4 - (-1{,}7) \times \left(\underline{(-3{,}6) + 1{,}6}\right)^3$
$= 0{,}4 - (-1{,}7) \times \underline{(-2)^3}$
$= 0{,}4 - \underline{(-1{,}7) \times (-8)}$
$= \underline{0{,}4 - 13{,}6}$
$= -13{,}2$

Order of Operations with Decimals (C)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

$(-2{,}2) - (9{,}2)^2 \div ((-6{,}4) \times 2{,}5)$

$((-6{,}4) - (-8{,}2)) \times (-5{,}1) + (0{,}3)^2$

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

$9{,}6 \times ((-9{,}6) - (-1{,}8) + 7{,}3)^2$

$(-8{,}3)^2 - 4{,}4 \times ((-1{,}7) + 0{,}2)$

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

Order of Operations with Decimals (C) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$= 15 \times \left((-6{,}9) + 5{,}6\right)^2$

$= 15 \times (-1{,}3)^2$

$= 15 \times 1{,}69$

$= 25{,}35$

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

$= \left(16{,}8 + (-2{,}2)\right) \times (-1{,}5)^2$

$= 14{,}6 \times (-1{,}5)^2$

$= 14{,}6 \times 2{,}25$

$= 32{,}85$

$(-2{,}2) - (9{,}2)^2 \div \left((-6{,}4) \times 2{,}5\right)$

$= (-2{,}2) - (9{,}2)^2 \div (-16)$

$= (-2{,}2) - 84{,}64 \div (-16)$

$= (-2{,}2) - (-5{,}29)$

$= 3{,}09$

$\left((-6{,}4) - (-8{,}2)\right) \times (-5{,}1) + (0{,}3)^2$

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

$= 1{,}8 \times (-5{,}1) + 0{,}09$

$= (-9{,}18) + 0{,}09$

$= -9{,}09$

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

$= \left(6{,}25 - 9{,}8\right) \times (6{,}9 + 1{,}5)$

$= (-3{,}55) \times \left(6{,}9 + 1{,}5\right)$

$= (-3{,}55) \times 8{,}4$

$= -29{,}82$

$9{,}6 \times \left((-9{,}6) - (-1{,}8) + 7{,}3\right)^2$

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

$= 9{,}6 \times (-0{,}5)^2$

$= 9{,}6 \times 0{,}25$

$= 2{,}4$

$(-8{,}3)^2 - 4{,}4 \times \left((-1{,}7) + 0{,}2\right)$

$= (-8{,}3)^2 - 4{,}4 \times (-1{,}5)$

$= 68{,}89 - 4{,}4 \times (-1{,}5)$

$= 68{,}89 - (-6{,}6)$

$= 75{,}49$

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

$= (-2{,}9)^2 + 6{,}8 \times (-10{,}7)$

$= 8{,}41 + 6{,}8 \times (-10{,}7)$

$= 8{,}41 + (-72{,}76)$

$= -64{,}35$

Order of Operations with Decimals (D)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(-9{,}6) \times ((-0{,}5) - 1{,}6 + 4{,}1)^3$

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

$(2{,}7 + 2{,}5)^2 \div 0{,}8 - (-9{,}9)$

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

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

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

$(7{,}4)^2 + 2{,}3 \div ((-3{,}4) - (-5{,}7))$

$(3{,}5)^2 - 7{,}2 \times ((-0{,}4) + (-1{,}9))$

Order of Operations with Decimals (D) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(-9{,}6) \times \left(\underline{(-0{,}5) - 1{,}6} + 4{,}1\right)^3$

$= (-9{,}6) \times \left(\underline{(-2{,}1) + 4{,}1}\right)^3$

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

$= \underline{(-9{,}6) \times 8}$

$= -76{,}8$

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

$= (-1{,}5) \times \left(\underline{7{,}84 - 9{,}2} + 3{,}6\right)$

$= (-1{,}5) \times \left(\underline{(-1{,}36) + 3{,}6}\right)$

$= \underline{(-1{,}5) \times 2{,}24}$

$= -3{,}36$

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

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

$= \underline{27{,}04 \div 0{,}8} - (-9{,}9)$

$= \underline{33{,}8 - (-9{,}9)}$

$= 43{,}7$

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

$= \left(17{,}64 - \underline{(-8{,}4) \div (-3{,}5)}\right) \times 4{,}5$

$= \left(\underline{17{,}64 - 2{,}4}\right) \times 4{,}5$

$= \underline{15{,}24 \times 4{,}5}$

$= 68{,}58$

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

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

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

$= \underline{(-9{,}6) \div 4}$

$= -2{,}4$

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

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

$= \underline{(-0{,}6)^2} \div 3$

$= \underline{0{,}36 \div 3}$

$= 0{,}12$

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

$= \underline{(7{,}4)^2} + 2{,}3 \div 2{,}3$

$= 54{,}76 + \underline{2{,}3 \div 2{,}3}$

$= \underline{54{,}76 + 1}$

$= 55{,}76$

$(3{,}5)^2 - 7{,}2 \times \left(\underline{(-0{,}4) + (-1{,}9)}\right)$

$= \underline{(3{,}5)^2} - 7{,}2 \times (-2{,}3)$

$= 12{,}25 - \underline{7{,}2 \times (-2{,}3)}$

$= \underline{12{,}25 - (-16{,}56)}$

$= 28{,}81$

Order of Operations with Decimals (E)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$((-0{,}1) + (-8{,}3)) \div (-2{,}5) - (1{,}4)^2$

$(2{,}5)^2 \times ((-4{,}6) - 7{,}6 + (-0{,}8))$

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

$(6{,}4 + (-3{,}9) - 2{,}5)^2 \times (-2{,}8)$

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

$(-8{,}2) \times ((-3{,}4) - (-1{,}9) + 2{,}5)^2$

$(0{,}5 \times 9{,}4)^2 \div 4{,}7 - 5{,}4$

Order of Operations with Decimals (E) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$= \left(\underline{20{,}25 + (-7{,}8)} - 8{,}4\right) \times (-5{,}2)$

$= \left(\underline{12{,}45 - 8{,}4}\right) \times (-5{,}2)$

$= \underline{4{,}05 \times (-5{,}2)}$

$= -21{,}06$

$\left(\underline{(-0{,}1) + (-8{,}3)}\right) \div (-2{,}5) - (1{,}4)^2$

$= (-8{,}4) \div (-2{,}5) - \underline{(1{,}4)^2}$

$= \underline{(-8{,}4) \div (-2{,}5)} - 1{,}96$

$= \underline{3{,}36 - 1{,}96}$

$= 1{,}4$

$(2{,}5)^2 \times \left(\underline{(-4{,}6) - 7{,}6} + (-0{,}8)\right)$

$= (2{,}5)^2 \times \left(\underline{(-12{,}2) + (-0{,}8)}\right)$

$= \underline{(2{,}5)^2} \times (-13)$

$= \underline{6{,}25 \times (-13)}$

$= -81{,}25$

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

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

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

$= \underline{1 \times 21{,}16}$

$= 21{,}16$

$\left(\underline{6{,}4 + (-3{,}9)} - 2{,}5\right)^2 \times (-2{,}8)$

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

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

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

$= 0$

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

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

$= 18{,}49 + \underline{(-4{,}8) \times (-0{,}8)}$

$= \underline{18{,}49 + 3{,}84}$

$= 22{,}33$

$(-8{,}2) \times \left(\underline{(-3{,}4) - (-1{,}9)} + 2{,}5\right)^2$

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

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

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

$= -8{,}2$

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

$= \underline{(4{,}7)^2} \div 4{,}7 - 5{,}4$

$= \underline{22{,}09 \div 4{,}7} - 5{,}4$

$= \underline{4{,}7 - 5{,}4}$

$= -0{,}7$

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.

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

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

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

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

$= 41{,}86$

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

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

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

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

$= 25{,}24$

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

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

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

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

$= 44{,}01$

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

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

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

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

$= -47{,}82$

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

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

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

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

$= 61{,}25$

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

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

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

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

$= 22{,}23$

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

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

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

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

$= -8{,}85$

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

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

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

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

$= 9{,}6$

Order of Operations with Decimals (G)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

$(4{,}9)^2 + 5{,}1 \times (9{,}2 - 0{,}5)$

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

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

$(-7{,}5) \times \left((-6{,}5) + (-0{,}2)^2 - 5{,}8\right)$

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

$(-7{,}5) - 1{,}3 \div (0{,}9 + (-1{,}1))^2$

Order of Operations with Decimals (G) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$= 3{,}4 \times \left(\underline{4{,}3 - 2{,}3}\right)^2$

$= 3{,}4 \times \underline{2^2}$

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

$= 13{,}6$

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

$= 2{,}4 - \underline{(-8{,}4)^2} \div (-9)$

$= 2{,}4 - \underline{70{,}56 \div (-9)}$

$= \underline{2{,}4 - (-7{,}84)}$

$= 10{,}24$

$(4{,}9)^2 + 5{,}1 \times \left(\underline{9{,}2 - 0{,}5}\right)$

$= \underline{(4{,}9)^2} + 5{,}1 \times 8{,}7$

$= 24{,}01 + \underline{5{,}1 \times 8{,}7}$

$= \underline{24{,}01 + 44{,}37}$

$= 68{,}38$

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

$= (-7{,}2) \div \left(\underline{(-10{,}5) + 9{,}7}\right)^2$

$= (-7{,}2) \div \underline{(-0{,}8)^2}$

$= \underline{(-7{,}2) \div 0{,}64}$

$= -11{,}25$

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

$= \left(4{,}84 - \underline{1{,}6 \times (-6{,}5)}\right) \div (-1{,}2)$

$= \left(\underline{4{,}84 - (-10{,}4)}\right) \div (-1{,}2)$

$= \underline{15{,}24 \div (-1{,}2)}$

$= -12{,}7$

$(-7{,}5) \times \left((-6{,}5) + \underline{(-0{,}2)^2} - 5{,}8\right)$

$= (-7{,}5) \times \left(\underline{(-6{,}5) + 0{,}04} - 5{,}8\right)$

$= (-7{,}5) \times \left(\underline{(-6{,}46) - 5{,}8}\right)$

$= \underline{(-7{,}5) \times (-12{,}26)}$

$= 91{,}95$

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

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

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

$= \underline{1 \times 2{,}56}$

$= 2{,}56$

$(-7{,}5) - 1{,}3 \div \left(\underline{0{,}9 + (-1{,}1)}\right)^2$

$= (-7{,}5) - 1{,}3 \div \underline{(-0{,}2)^2}$

$= (-7{,}5) - \underline{1{,}3 \div 0{,}04}$

$= \underline{(-7{,}5) - 32{,}5}$

$= -40$

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.

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

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

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

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

$= 16{,}15$

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

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

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

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

$= 93{,}36$

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

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

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

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

$= -41{,}75$

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

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

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

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

$= 33{,}85$

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

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

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

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

$= -14{,}8$

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

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

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

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

$= -1{,}53$

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

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

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

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

$= 23{,}91$

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

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

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

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

$= 0$

Order of Operations with Decimals (I)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

$6{,}6 + 3{,}7 \div (3{,}3 - 4{,}3)^3$

$(5{,}4)^2 - 7{,}8 \times (2{,}8 + (-8{,}6))$

$((-5{,}2) - (-4{,}9)) \div 2{,}5 + (-9{,}5)^2$

$(-2{,}4) \times (8{,}1 + (-8{,}9) - 5{,}2)^2$

$(3{,}8 - (-3{,}9))^2 \div (4{,}7 + (-5{,}8))$

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

Order of Operations with Decimals (I) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$= 3{,}5 \times \left(\underline{(-7{,}4) - 4{,}5} + 19{,}36\right)$

$= 3{,}5 \times \left(\underline{(-11{,}9) + 19{,}36}\right)$

$= \underline{3{,}5 \times 7{,}46}$

$= 26{,}11$

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

$= 0{,}5 \times \left(\underline{(-8{,}1) - 4{,}4} + 0{,}16\right)$

$= 0{,}5 \times \left(\underline{(-12{,}5) + 0{,}16}\right)$

$= \underline{0{,}5 \times (-12{,}34)}$

$= -6{,}17$

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

$= 6{,}6 + 3{,}7 \div \underline{(-1)^3}$

$= 6{,}6 + \underline{3{,}7 \div (-1)}$

$= \underline{6{,}6 + (-3{,}7)}$

$= 2{,}9$

$(5{,}4)^2 - 7{,}8 \times \left(\underline{2{,}8 + (-8{,}6)}\right)$

$= \underline{(5{,}4)^2} - 7{,}8 \times (-5{,}8)$

$= 29{,}16 - \underline{7{,}8 \times (-5{,}8)}$

$= \underline{29{,}16 - (-45{,}24)}$

$= 74{,}4$

$\left(\underline{(-5{,}2) - (-4{,}9)}\right) \div 2{,}5 + (-9{,}5)^2$

$= (-0{,}3) \div 2{,}5 + \underline{(-9{,}5)^2}$

$= \underline{(-0{,}3) \div 2{,}5} + 90{,}25$

$= \underline{(-0{,}12) + 90{,}25}$

$= 90{,}13$

$(-2{,}4) \times \left(\underline{8{,}1 + (-8{,}9)} - 5{,}2\right)^2$

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

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

$= \underline{(-2{,}4) \times 36}$

$= -86{,}4$

$\left(\underline{3{,}8 - (-3{,}9)}\right)^2 \div (4{,}7 + (-5{,}8))$

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

$= \underline{(7{,}7)^2} \div (-1{,}1)$

$= \underline{59{,}29 \div (-1{,}1)}$

$= -53{,}9$

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

$= 0{,}4 \times \left(\underline{3{,}5 - 4{,}5}\right)^3$

$= 0{,}4 \times \underline{(-1)^3}$

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

$= -0{,}4$

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.

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

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

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

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

$= 90{,}22$

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

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

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

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

$= 5{,}3$

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

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

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

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

$= -53{,}76$

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

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

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

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

$= 24{,}79$

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

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

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

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

$= -17{,}01$

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

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

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

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

$= -17{,}37$

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

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

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

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

$= -50{,}72$

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

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

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

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

$= 32{,}4$