Order of Operations with Decimals (E)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

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

Order of Operations with Decimals (E) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

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

$= \left(79{,}21 \times 0\right)^3 \div 7{,}2$

$= 0^3 \div 7{,}2$

$= 0 \div 7{,}2$

$= 0$

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

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

$= (-8{,}16) \div (0{,}8)^2 - (7{,}2)^2$

$= (-8{,}16) \div 0{,}64 - (7{,}2)^2$

$= (-8{,}16) \div 0{,}64 - 51{,}84$

$= (-12{,}75) - 51{,}84$

$= -64{,}59$

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

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

$= 8{,}3 + (2{,}5)^2 - (-8{,}9) \div (-0{,}25)$

$= 8{,}3 + 6{,}25 - (-8{,}9) \div (-0{,}25)$

$= 8{,}3 + 6{,}25 - 35{,}6$

$= 14{,}55 - 35{,}6$

$= -21{,}05$