Order of Operations with Decimals (E)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

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

$(6{,}5)^2 \div 2{,}5 + (-7{,}5)$

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

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

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

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

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

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

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

Order of Operations with Decimals (E) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$1{,}4 \times (-9{,}7) - (4{,}2)^2$
$= 1{,}4 \times (-9{,}7) - 17{,}64$
$= (-13{,}58) - 17{,}64$
$= -31{,}22$

$(-0{,}1) - 4{,}8 \times (1{,}5)^2$
$= (-0{,}1) - 4{,}8 \times 2{,}25$
$= (-0{,}1) - 10{,}8$
$= -10{,}9$

$(6{,}5)^2 \div 2{,}5 + (-7{,}5)$
$= 42{,}25 \div 2{,}5 + (-7{,}5)$
$= 16{,}9 + (-7{,}5)$
$= 9{,}4$

$(-5{,}8)^2 - (-3{,}3) \times (-3{,}4)$
$= 33{,}64 - (-3{,}3) \times (-3{,}4)$
$= 33{,}64 - 11{,}22$
$= 22{,}42$

$(7{,}9 - 8{,}1) \times (-1{,}5)^2$
$= (-0{,}2) \times (-1{,}5)^2$
$= (-0{,}2) \times 2{,}25$
$= -0{,}45$

$((4{,}1)^2 - 2{,}5) \div 0{,}5$
$= (16{,}81 - 2{,}5) \div 0{,}5$
$= 14{,}31 \div 0{,}5$
$= 28{,}62$

$(-7{,}2)^2 + (-1{,}4) \times (-9{,}5)$
$= 51{,}84 + (-1{,}4) \times (-9{,}5)$
$= 51{,}84 + 13{,}3$
$= 65{,}14$

$(-1{,}9)^2 - (-4{,}1) \times (-9{,}1)$
$= 3{,}61 - (-4{,}1) \times (-9{,}1)$
$= 3{,}61 - 37{,}31$
$= -33{,}7$

$(-3{,}5) \times (2{,}2)^2 - 1{,}1$
$= (-3{,}5) \times 4{,}84 - 1{,}1$
$= (-16{,}94) - 1{,}1$
$= -18{,}04$

$(-6{,}6) \times ((1{,}5)^2 + (-9{,}2))$
$= (-6{,}6) \times (2{,}25 + (-9{,}2))$
$= (-6{,}6) \times (-6{,}95)$
$= 45{,}87$