Order of Operations with Decimals (J)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left((3.3)^2 \div (7.5 + 2.7 - 5.7)\right) \times 1.5$

$\left(8.2 - (4.5)^2 \div (3.3 + 4.8)\right) \times 1.2$

$\left(3.4 + (9.6)^2 - 1.5 \times 3.6\right) \div 3.5$

$(7.2 + 9.8 - 2.5 \times 6.8) \div (4.8)^2$

$(1.1)^2 + 1.3 \times (2.9 - 3.6 \div 1.8)$

$\left((3.8)^2 \div 1.9 + 1.1\right) \times 3.4 - 2.8$

$(3.6)^2 + 3.1 \times (3.8 \div (9.5 - 9.3))$

$(1.5 + 6.4 \div 1.6) \times 9.2 - (2.9)^2$

Order of Operations with Decimals (J) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$((3.3)^2 \div (7.5 + 2.7 - 5.7)) \times 1.5$

$= ((3.3)^2 \div (10.2 - 5.7)) \times 1.5$

$= ((3.3)^2 \div 4.5) \times 1.5$

$= (10.89 \div 4.5) \times 1.5$

$= 2.42 \times 1.5$

$= 3.63$

$(8.2 - (4.5)^2 \div (3.3 + 4.8)) \times 1.2$

$= (8.2 - (4.5)^2 \div 8.1) \times 1.2$

$= (8.2 - 20.25 \div 8.1) \times 1.2$

$= (8.2 - 2.5) \times 1.2$

$= 5.7 \times 1.2$

$= 6.84$

$(3.4 + (9.6)^2 - 1.5 \times 3.6) \div 3.5$

$= (3.4 + 92.16 - 1.5 \times 3.6) \div 3.5$

$= (3.4 + 92.16 - 5.4) \div 3.5$

$= (95.56 - 5.4) \div 3.5$

$= 90.16 \div 3.5$

$= 25.76$

$(7.2 + 9.8 - 2.5 \times 6.8) \div (4.8)^2$

$= (7.2 + 9.8 - 17) \div (4.8)^2$

$= (17 - 17) \div (4.8)^2$

$= 0 \div (4.8)^2$

$= 0 \div 23.04$

$= 0$

$(1.1)^2 + 1.3 \times (2.9 - 3.6 \div 1.8)$

$= (1.1)^2 + 1.3 \times (2.9 - 2)$

$= (1.1)^2 + 1.3 \times 0.9$

$= 1.21 + 1.3 \times 0.9$

$= 1.21 + 1.17$

$= 2.38$

$((3.8)^2 \div 1.9 + 1.1) \times 3.4 - 2.8$

$= (14.44 \div 1.9 + 1.1) \times 3.4 - 2.8$

$= (7.6 + 1.1) \times 3.4 - 2.8$

$= 8.7 \times 3.4 - 2.8$

$= 29.58 - 2.8$

$= 26.78$

$(3.6)^2 + 3.1 \times (3.8 \div (9.5 - 9.3))$

$= (3.6)^2 + 3.1 \times (3.8 \div 0.2)$

$= (3.6)^2 + 3.1 \times 19$

$= 12.96 + 3.1 \times 19$

$= 12.96 + 58.9$

$= 71.86$

$(1.5 + 6.4 \div 1.6) \times 9.2 - (2.9)^2$

$= (1.5 + 4) \times 9.2 - (2.9)^2$

$= 5.5 \times 9.2 - (2.9)^2$

$= 5.5 \times 9.2 - 8.41$

$= 50.6 - 8.41$

$= 42.19$