Order of Operations with Decimals (D)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(3.1 - (1.6)^2 + 4.6 \times 1.7\right) \div 1.1$

$\left((8.4)^2 \div 4.9 - 9.9\right) \times 8.3 + 7.5$

$\left((9.1)^2 + 2.4 \times 6.6 - 5.4\right) \div 2.5$

$8.4 \div (8.7 - 3.1) \times (4.6)^2 + 2.5$

$\left((7.7)^2 - 2.2 + 8.3\right) \div 1.3 \times 1.1$

$7.9 + 1.9 \div (5.6 - 3.7) \times (2.8)^2$

$\left(9.2 + 2.2 - (6.6)^2 \div 9.9\right) \times 4.1$

$\left((3.8)^2 - 3.4\right) \div (1.8 + 7.4) \times 1.9$

Order of Operations with Decimals (D) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(3.1 - (1.6)^2 + 4.6 \times 1.7) \div 1.1$
$= (3.1 - 2.56 + 4.6 \times 1.7) \div 1.1$
$= (3.1 - 2.56 + 7.82) \div 1.1$
$= (0.54 + 7.82) \div 1.1$
$= 8.36 \div 1.1$
$= 7.6$

$((8.4)^2 \div 4.9 - 9.9) \times 8.3 + 7.5$
$= (70.56 \div 4.9 - 9.9) \times 8.3 + 7.5$
$= (14.4 - 9.9) \times 8.3 + 7.5$
$= 4.5 \times 8.3 + 7.5$
$= 37.35 + 7.5$
$= 44.85$

$((9.1)^2 + 2.4 \times 6.6 - 5.4) \div 2.5$
$= (82.81 + 2.4 \times 6.6 - 5.4) \div 2.5$
$= (82.81 + 15.84 - 5.4) \div 2.5$
$= (98.65 - 5.4) \div 2.5$
$= 93.25 \div 2.5$
$= 37.3$

$8.4 \div (8.7 - 3.1) \times (4.6)^2 + 2.5$
$= 8.4 \div 5.6 \times (4.6)^2 + 2.5$
$= 8.4 \div 5.6 \times 21.16 + 2.5$
$= 1.5 \times 21.16 + 2.5$
$= 31.74 + 2.5$
$= 34.24$

$((7.7)^2 - 2.2 + 8.3) \div 1.3 \times 1.1$
$= (59.29 - 2.2 + 8.3) \div 1.3 \times 1.1$
$= (57.09 + 8.3) \div 1.3 \times 1.1$
$= 65.39 \div 1.3 \times 1.1$
$= 50.3 \times 1.1$
$= 55.33$

$7.9 + 1.9 \div (5.6 - 3.7) \times (2.8)^2$
$= 7.9 + 1.9 \div 1.9 \times (2.8)^2$
$= 7.9 + 1.9 \div 1.9 \times 7.84$
$= 7.9 + 1 \times 7.84$
$= 7.9 + 7.84$
$= 15.74$

$(9.2 + 2.2 - (6.6)^2 \div 9.9) \times 4.1$
$= (9.2 + 2.2 - 43.56 \div 9.9) \times 4.1$
$= (9.2 + 2.2 - 4.4) \times 4.1$
$= (11.4 - 4.4) \times 4.1$
$= 7 \times 4.1$
$= 28.7$

$((3.8)^2 - 3.4) \div (1.8 + 7.4) \times 1.9$
$= (14.44 - 3.4) \div (1.8 + 7.4) \times 1.9$
$= 11.04 \div (1.8 + 7.4) \times 1.9$
$= 11.04 \div 9.2 \times 1.9$
$= 1.2 \times 1.9$
$= 2.28$