Order of Operations with Decimals (D)

Name: _____ Date: _____

Solve 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: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

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

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