| Order of Operations with Decimals (H) |

Name: _____   Date: _____

Simplify each expression using the correct order of operations.

$(3.7 + 2.1 - 3.8)^2 \times 1.2$ $\left(6.4 - (1.5)^2 + 1.25\right) \times 4.9$

$9.4 - (8.4)^2 \div (3.1 + 8.1)$ $(2.5)^2 \times (1.9 + 6.3 - 2.2)$

$(2.8)^2 + 8.8 \times (2.5 \div 1.25)$ $\left(6.4 + (7.5)^2\right) \div 2.5 - 9.9$

$(9.5 - 5.9) \times 6.2 + (1.2)^2$ $(2.2)^2 \times (5.9 + 4.6) \div 1.1$

Order of Operations with Decimals (H) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$\left(\underline{3.7 + 2.1} - 3.8\right)^2 \times 1.2$

$= \left(\underline{5.8 - 3.8}\right)^2 \times 1.2$

$= \underline{2^2} \times 1.2$

$= \underline{4 \times 1.2}$

$= 4.8$

$\left(6.4 - \underline{(1.5)^2} + 1.25\right) \times 4.9$

$= \left(\underline{6.4 - 2.25} + 1.25\right) \times 4.9$

$= \left(\underline{4.15 + 1.25}\right) \times 4.9$

$= \underline{5.4 \times 4.9}$

$= 26.46$

$9.4 - (8.4)^2 \div \left(\underline{3.1 + 8.1}\right)$

$= 9.4 - \underline{(8.4)^2} \div 11.2$

$= 9.4 - \underline{70.56 \div 11.2}$

$= \underline{9.4 - 6.3}$

$= 3.1$

$(2.5)^2 \times \left(\underline{1.9 + 6.3} - 2.2\right)$

$= (2.5)^2 \times \left(\underline{8.2 - 2.2}\right)$

$= \underline{(2.5)^2} \times 6$

$= \underline{6.25 \times 6}$

$= 37.5$

$(2.8)^2 + 8.8 \times \left(\underline{2.5 \div 1.25}\right)$

$= \underline{(2.8)^2} + 8.8 \times 2$

$= 7.84 + \underline{8.8 \times 2}$

$= \underline{7.84 + 17.6}$

$= 25.44$

$\left(6.4 + \underline{(7.5)^2}\right) \div 2.5 - 9.9$

$= \left(\underline{6.4 + 56.25}\right) \div 2.5 - 9.9$

$= \underline{62.65 \div 2.5} - 9.9$

$= \underline{25.06 - 9.9}$

$= 15.16$

$\left(\underline{9.5 - 5.9}\right) \times 6.2 + (1.2)^2$

$= 3.6 \times 6.2 + \underline{(1.2)^2}$

$= \underline{3.6 \times 6.2} + 1.44$

$= \underline{22.32 + 1.44}$

$= 23.76$

$(2.2)^2 \times \left(\underline{5.9 + 4.6}\right) \div 1.1$

$= \underline{(2.2)^2} \times 10.5 \div 1.1$

$= \underline{4.84 \times 10.5} \div 1.1$

$= \underline{50.82 \div 1.1}$

$= 46.2$

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