Order of Operations with Decimals (B)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$6.8 \div 1.25 \times (5.8 + 2.9 - 7.7)^3$

$5.7 \times \left((6.2)^2 \div 3.1 - 1.6 + 6.6\right)$

$(2.8 \div 2.8)^3 \times (4.7 - 4.5 + 7.8)$

$8.2 \times \left(2.9 + 3.5 - 9.8 \div (2.8)^2\right)$

$\left((1.9 + 4.5 - 4.4)^2 \div 2.5\right) \times 7.6$

$4.4 \times \left((9.2)^2 \div 4.6 + 7.1 - 8.3\right)$

$\left((5.4)^2 \div 2.7\right) \times 7.7 + 1.8 - 8.2$

$\left(2.4 + (5.2)^2 - 8.3 \times 2.6\right) \div 1.2$

Order of Operations with Decimals (B) Answers

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$6.8 \div 1.25 \times (5.8 + 2.9 - 7.7)^3$

$= 6.8 \div 1.25 \times (8.7 - 7.7)^3$

$= 6.8 \div 1.25 \times 1^3$

$= 6.8 \div 1.25 \times 1$

$= 5.44 \times 1$

$= 5.44$

$5.7 \times ((6.2)^2 \div 3.1 - 1.6 + 6.6)$

$= 5.7 \times (38.44 \div 3.1 - 1.6 + 6.6)$

$= 5.7 \times (12.4 - 1.6 + 6.6)$

$= 5.7 \times (10.8 + 6.6)$

$= 5.7 \times 17.4$

$= 99.18$

$(2.8 \div 2.8)^3 \times (4.7 - 4.5 + 7.8)$

$= 1^3 \times (4.7 - 4.5 + 7.8)$

$= 1^3 \times (0.2 + 7.8)$

$= 1^3 \times 8$

$= 1 \times 8$

$= 8$

$8.2 \times (2.9 + 3.5 - 9.8 \div (2.8)^2)$

$= 8.2 \times (2.9 + 3.5 - 9.8 \div 7.84)$

$= 8.2 \times (2.9 + 3.5 - 1.25)$

$= 8.2 \times (6.4 - 1.25)$

$= 8.2 \times 5.15$

$= 42.23$

$((1.9 + 4.5 - 4.4)^2 \div 2.5) \times 7.6$

$= ((6.4 - 4.4)^2 \div 2.5) \times 7.6$

$= (2^2 \div 2.5) \times 7.6$

$= (4 \div 2.5) \times 7.6$

$= 1.6 \times 7.6$

$= 12.16$

$4.4 \times ((9.2)^2 \div 4.6 + 7.1 - 8.3)$

$= 4.4 \times (84.64 \div 4.6 + 7.1 - 8.3)$

$= 4.4 \times (18.4 + 7.1 - 8.3)$

$= 4.4 \times (25.5 - 8.3)$

$= 4.4 \times 17.2$

$= 75.68$

$((5.4)^2 \div 2.7) \times 7.7 + 1.8 - 8.2$

$= (29.16 \div 2.7) \times 7.7 + 1.8 - 8.2$

$= 10.8 \times 7.7 + 1.8 - 8.2$

$= 83.16 + 1.8 - 8.2$

$= 84.96 - 8.2$

$= 76.76$

$(2.4 + (5.2)^2 - 8.3 \times 2.6) \div 1.2$

$= (2.4 + 27.04 - 8.3 \times 2.6) \div 1.2$

$= (2.4 + 27.04 - 21.58) \div 1.2$

$= (29.44 - 21.58) \div 1.2$

$= 7.86 \div 1.2$

$= 6.55$