Order of Operations with Decimals (A)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$(5.6 \times 1.5)^2 \div 9.8 + 2.4 - 6.8 + 7.2$

$\left(6.1 + (9.2)^2\right) \times \left((0.5)^2 - 0.25\right) \div 4.1$

$4.4 + (8.5)^2 - 2.1 \times (5.4 \div 2.7)^2$

$(6.4 \times 1.5)^2 \div 2.4 + 0.2 - (5.3)^2$

$\left((9.5)^2 \div 2.5\right) \times (4.5 + 4.6 - 3.6 - 2.8)$

$\left((2.8)^2 + (6.6)^2 - 9.2\right) \times (2.1 \div 1.2)$

Order of Operations with Decimals (A) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$(5.6 \times 1.5)^2 \div 9.8 + 2.4 - 6.8 + 7.2$

$= (8.4)^2 \div 9.8 + 2.4 - 6.8 + 7.2$

$= 70.56 \div 9.8 + 2.4 - 6.8 + 7.2$

$= 7.2 + 2.4 - 6.8 + 7.2$

$= 9.6 - 6.8 + 7.2$

$= 2.8 + 7.2$

$= 10$

$\left(6.1 + (9.2)^2\right) \times \left((0.5)^2 - 0.25\right) \div 4.1$

$= (6.1 + 84.64) \times \left((0.5)^2 - 0.25\right) \div 4.1$

$= 90.74 \times \left((0.5)^2 - 0.25\right) \div 4.1$

$= 90.74 \times (0.25 - 0.25) \div 4.1$

$= 90.74 \times 0 \div 4.1$

$= 0 \div 4.1$

$= 0$

$4.4 + (8.5)^2 - 2.1 \times (5.4 \div 2.7)^2$

$= 4.4 + (8.5)^2 - 2.1 \times 2^2$

$= 4.4 + 72.25 - 2.1 \times 2^2$

$= 4.4 + 72.25 - 2.1 \times 4$

$= 4.4 + 72.25 - 8.4$

$= 76.65 - 8.4$

$= 68.25$

$(6.4 \times 1.5)^2 \div 2.4 + 0.2 - (5.3)^2$

$= (9.6)^2 \div 2.4 + 0.2 - (5.3)^2$

$= 92.16 \div 2.4 + 0.2 - (5.3)^2$

$= 92.16 \div 2.4 + 0.2 - 28.09$

$= 38.4 + 0.2 - 28.09$

$= 38.6 - 28.09$

$= 10.51$

$\left((9.5)^2 \div 2.5\right) \times (4.5 + 4.6 - 3.6 - 2.8)$

$= (90.25 \div 2.5) \times (4.5 + 4.6 - 3.6 - 2.8)$

$= 36.1 \times (4.5 + 4.6 - 3.6 - 2.8)$

$= 36.1 \times (9.1 - 3.6 - 2.8)$

$= 36.1 \times (5.5 - 2.8)$

$= 36.1 \times 2.7$

$= 97.47$

$\left((2.8)^2 + (6.6)^2 - 9.2\right) \times (2.1 \div 1.2)$

$= \left(7.84 + (6.6)^2 - 9.2\right) \times (2.1 \div 1.2)$

$= (7.84 + 43.56 - 9.2) \times (2.1 \div 1.2)$

$= (51.4 - 9.2) \times (2.1 \div 1.2)$

$= 42.2 \times (2.1 \div 1.2)$

$= 42.2 \times 1.75$

$= 73.85$