Order of Operations with Decimals (E)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$\left((-4.5)^2 + (-7.8) - 8.4\right) \times (-5.2)$

$((-0.1) + (-8.3)) \div (-2.5) - (1.4)^2$

$(2.5)^2 \times ((-4.6) - 7.6 + (-0.8))$

$((-3.8) - (-8.3) + (-3.5)) \times (-4.6)^2$

$(6.4 + (-3.9) - 2.5)^2 \times (-2.8)$

$(4.3)^2 + (-4.8) \times (4.4 - 5.2)$

$(-8.2) \times ((-3.4) - (-1.9) + 2.5)^2$

$(0.5 \times 9.4)^2 \div 4.7 - 5.4$

Order of Operations with Decimals (E) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$\left(\underline{(-4.5)^2} + (-7.8) - 8.4 \right) \times (-5.2)$

$= \left(\underline{20.25 + (-7.8)} - 8.4 \right) \times (-5.2)$

$= \underline{(12.45 - 8.4)} \times (-5.2)$

$= \underline{4.05 \times (-5.2)}$

$= -21.06$

$\left(\underline{(-0.1) + (-8.3)} \right) \div (-2.5) - (1.4)^2$

$= (-8.4) \div (-2.5) - \underline{(1.4)^2}$

$= \underline{(-8.4) \div (-2.5)} - 1.96$

$= \underline{3.36 - 1.96}$

$= 1.4$

$(2.5)^2 \times \left(\underline{(-4.6) - 7.6} + (-0.8) \right)$

$= (2.5)^2 \times \left(\underline{(-12.2) + (-0.8)} \right)$

$= \underline{(2.5)^2} \times (-13)$

$= \underline{6.25 \times (-13)}$

$= -81.25$

$\left(\underline{(-3.8) - (-8.3)} + (-3.5) \right) \times (-4.6)^2$

$= \left(\underline{4.5 + (-3.5)} \right) \times (-4.6)^2$

$= 1 \times \underline{(-4.6)^2}$

$= \underline{1 \times 21.16}$

$= 21.16$

$\left(\underline{6.4 + (-3.9)} - 2.5 \right)^2 \times (-2.8)$

$= \underline{(2.5 - 2.5)^2} \times (-2.8)$

$= \underline{0^2} \times (-2.8)$

$= \underline{0 \times (-2.8)}$

$= 0$

$(4.3)^2 + (-4.8) \times \underline{(4.4 - 5.2)}$

$= \underline{(4.3)^2} + (-4.8) \times (-0.8)$

$= 18.49 + \underline{(-4.8) \times (-0.8)}$

$= \underline{18.49 + 3.84}$

$= 22.33$

$(-8.2) \times \left(\underline{(-3.4) - (-1.9)} + 2.5 \right)^2$

$= (-8.2) \times \left(\underline{(-1.5) + 2.5} \right)^2$

$= (-8.2) \times \underline{1^2}$

$= \underline{(-8.2) \times 1}$

$= -8.2$

$\underline{(0.5 \times 9.4)^2} \div 4.7 - 5.4$

$= \underline{(4.7)^2} \div 4.7 - 5.4$

$= \underline{22.09 \div 4.7} - 5.4$

$= \underline{4.7 - 5.4}$

$= -0.7$