Order of Operations with Decimals **(E)**

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$(0.5 - (-8.7) \times (-8.3)) \div \left((0.6)^2 + (-4.4)\right)$ $9.9 + (-7.5) \times \left((-3.5) \div 0.7 - (0.4)^2\right)$

$1.8 \div 2.4 \times \left(7.1 - (1.6)^2 + (-3.1)\right)$ $\left((1.8)^2 \div 7.2 + (-6.8) - (-7.2)\right) \times (-4.6)$

$((-4.1) - (-7.1)) \div (0.4)^2 + 4.7 \times 5.3$ $(-7.5)^2 \times ((-6.6) \div (8.3 - (-4.9) + (-8.2)))$

Order of Operations with Decimals (E) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$\left(0.5 - \underline{(-8.7) \times (-8.3)}\right) \div \left((0.6)^2 + (-4.4)\right)$

$= \underline{(0.5 - 72.21)} \div \left((0.6)^2 + (-4.4)\right)$

$= (-71.71) \div \left(\underline{(0.6)^2} + (-4.4)\right)$

$= (-71.71) \div \left(\underline{0.36 + (-4.4)}\right)$

$= \underline{(-71.71) \div (-4.04)}$

$= 17.75$

$9.9 + (-7.5) \times \left((-3.5) \div 0.7 - \underline{(0.4)^2}\right)$

$= 9.9 + (-7.5) \times \left(\underline{(-3.5) \div 0.7} - 0.16\right)$

$= 9.9 + (-7.5) \times \left(\underline{(-5) - 0.16}\right)$

$= 9.9 + \underline{(-7.5) \times (-5.16)}$

$= \underline{9.9 + 38.7}$

$= 48.6$

$1.8 \div 2.4 \times \left(7.1 - \underline{(1.6)^2} + (-3.1)\right)$

$= 1.8 \div 2.4 \times \left(\underline{7.1 - 2.56} + (-3.1)\right)$

$= 1.8 \div 2.4 \times \left(\underline{4.54 + (-3.1)}\right)$

$= \underline{1.8 \div 2.4} \times 1.44$

$= \underline{0.75 \times 1.44}$

$= 1.08$

$\left(\underline{(1.8)^2} \div 7.2 + (-6.8) - (-7.2)\right) \times (-4.6)$

$= \left(\underline{3.24 \div 7.2} + (-6.8) - (-7.2)\right) \times (-4.6)$

$= \left(\underline{0.45 + (-6.8)} - (-7.2)\right) \times (-4.6)$

$= \left(\underline{(-6.35) - (-7.2)}\right) \times (-4.6)$

$= \underline{0.85 \times (-4.6)}$

$= -3.91$

$\left(\underline{(-4.1) - (-7.1)}\right) \div (0.4)^2 + 4.7 \times 5.3$

$= 3 \div \underline{(0.4)^2} + 4.7 \times 5.3$

$= \underline{3 \div 0.16} + 4.7 \times 5.3$

$= 18.75 + \underline{4.7 \times 5.3}$

$= \underline{18.75 + 24.91}$

$= 43.66$

$(-7.5)^2 \times \left((-6.6) \div \left(\underline{8.3 - (-4.9)} + (-8.2)\right)\right)$

$= (-7.5)^2 \times \left((-6.6) \div \left(\underline{13.2 + (-8.2)}\right)\right)$

$= (-7.5)^2 \times \left(\underline{(-6.6) \div 5}\right)$

$= \underline{(-7.5)^2} \times (-1.32)$

$= \underline{56.25 \times (-1.32)}$

$= -74.25$