

Order of Operations with Decimals (D)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\left((-2.5) + (0.9)^2 - 3.2\right) \div ((-0.5) \times (-0.4)) \quad (7.6 \div ((-7.2) + 8.8)) \times (4.2)^2 - 0.3$$

$$((-6.9) + (-4.1)) \div (-0.4)^2 - 2.7 \times 6.8 \quad 1.25 \div (0.5)^2 \times (5.3 - 6.8 + (-8.7))$$

$$(-3.1)^2 - 6.8 \times ((-5.7) \div (-0.4) + (-8.7)) \quad (-0.8) \div \left((-0.2)^2 - (-7.8) \times (-0.3) + 0.7\right)$$

Order of Operations with Decimals (D) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & ((-2.5) + \underline{(0.9)^2} - 3.2) \div ((-0.5) \times (-0.4)) & (7.6 \div \underline{((-7.2) + 8.8)}) \times (4.2)^2 - 0.3 \\ & = \underline{((-2.5) + 0.81 - 3.2)} \div ((-0.5) \times (-0.4)) & = \underline{(7.6 \div 1.6)} \times (4.2)^2 - 0.3 \\ & = \underline{((-1.69) - 3.2)} \div ((-0.5) \times (-0.4)) & = 4.75 \times \underline{(4.2)^2} - 0.3 \\ & = (-4.89) \div \underline{((-0.5) \times (-0.4))} & = \underline{4.75 \times 17.64} - 0.3 \\ & = \underline{(-4.89) \div 0.2} & = \underline{83.79 - 0.3} \\ & = -24.45 & = 83.49 \end{aligned}$$

$$\begin{aligned} & \underline{((-6.9) + (-4.1))} \div (-0.4)^2 - 2.7 \times 6.8 & 1.25 \div (0.5)^2 \times \underline{(5.3 - 6.8)} + (-8.7) \\ & = (-11) \div \underline{(-0.4)^2} - 2.7 \times 6.8 & = 1.25 \div (0.5)^2 \times \underline{((-1.5) + (-8.7))} \\ & = \underline{(-11) \div 0.16} - 2.7 \times 6.8 & = 1.25 \div \underline{(0.5)^2} \times (-10.2) \\ & = (-68.75) - \underline{2.7 \times 6.8} & = \underline{1.25 \div 0.25} \times (-10.2) \\ & = \underline{(-68.75) - 18.36} & = \underline{5 \times (-10.2)} \\ & = -87.11 & = -51 \end{aligned}$$

$$\begin{aligned} & (-3.1)^2 - 6.8 \times \underline{((-5.7) \div (-0.4))} + (-8.7) & (-0.8) \div \underline{((-0.2)^2} - (-7.8) \times (-0.3) + 0.7) \\ & = (-3.1)^2 - 6.8 \times \underline{(14.25 + (-8.7))} & = (-0.8) \div \underline{(0.04 - (-7.8) \times (-0.3) + 0.7)} \\ & = \underline{(-3.1)^2} - 6.8 \times 5.55 & = (-0.8) \div \underline{(0.04 - 2.34 + 0.7)} \\ & = 9.61 - \underline{6.8 \times 5.55} & = (-0.8) \div \underline{((-2.3) + 0.7)} \\ & = \underline{9.61 - 37.74} & = \underline{(-0.8) \div (-1.6)} \\ & = -28.13 & = 0.5 \end{aligned}$$