

Order of Operations with Decimals (J)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\left((-7.2) + (-3.9) - (-2.5)^2\right) \times (-5.2)$$

$$\left((-8.1) - (-9.1)\right)^3 \times 0.2 + 5.1$$

$$(-3.5) \times \left(2.5 - (-6.1) + (2.6)^2\right)$$

$$7.4 \times \left(0.9 + 8.7 - (-2.5)^2\right)$$

$$(6.3 \times 0.4) \div (-0.2) - (2.1)^2$$

$$\left(1.5 - (-2.7)^2\right) \times (8.3 + (-5.3))$$

$$\left(8.3 + (-4.4)^2\right) \div (-0.5) - (-4.6)$$

$$\left((-0.8) + (-3.9) - (-1.1)\right)^2 \times 2.5$$

Order of Operations with Decimals (J) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & ((-7.2) + (-3.9) - (-2.5)^2) \times (-5.2) \\ &= ((-7.2) + (-3.9) - 6.25) \times (-5.2) \\ &= ((-11.1) - 6.25) \times (-5.2) \\ &= (-17.35) \times (-5.2) \\ &= 90.22 \end{aligned}$$

$$\begin{aligned} & ((-8.1) - (-9.1))^3 \times 0.2 + 5.1 \\ &= 1^3 \times 0.2 + 5.1 \\ &= 1 \times 0.2 + 5.1 \\ &= 0.2 + 5.1 \\ &= 5.3 \end{aligned}$$

$$\begin{aligned} & (-3.5) \times (2.5 - (-6.1) + (2.6)^2) \\ &= (-3.5) \times (2.5 - (-6.1) + 6.76) \\ &= (-3.5) \times (8.6 + 6.76) \\ &= (-3.5) \times 15.36 \\ &= -53.76 \end{aligned}$$

$$\begin{aligned} & 7.4 \times (0.9 + 8.7 - (-2.5)^2) \\ &= 7.4 \times (0.9 + 8.7 - 6.25) \\ &= 7.4 \times (9.6 - 6.25) \\ &= 7.4 \times 3.35 \\ &= 24.79 \end{aligned}$$

$$\begin{aligned} & (6.3 \times 0.4) \div (-0.2) - (2.1)^2 \\ &= 2.52 \div (-0.2) - (2.1)^2 \\ &= 2.52 \div (-0.2) - 4.41 \\ &= (-12.6) - 4.41 \\ &= -17.01 \end{aligned}$$

$$\begin{aligned} & (1.5 - (-2.7)^2) \times (8.3 + (-5.3)) \\ &= (1.5 - 7.29) \times (8.3 + (-5.3)) \\ &= (-5.79) \times (8.3 + (-5.3)) \\ &= (-5.79) \times 3 \\ &= -17.37 \end{aligned}$$

$$\begin{aligned} & (8.3 + (-4.4)^2) \div (-0.5) - (-4.6) \\ &= (8.3 + 19.36) \div (-0.5) - (-4.6) \\ &= 27.66 \div (-0.5) - (-4.6) \\ &= (-55.32) - (-4.6) \\ &= -50.72 \end{aligned}$$

$$\begin{aligned} & ((-0.8) + (-3.9) - (-1.1))^2 \times 2.5 \\ &= ((-4.7) - (-1.1))^2 \times 2.5 \\ &= (-3.6)^2 \times 2.5 \\ &= 12.96 \times 2.5 \\ &= 32.4 \end{aligned}$$