

Order of Operations with Decimals (F)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\left((8.3)^2 \div (-8.3) - 8.5 \right) \times ((-5.8) + 2.6) \quad \left(9.8 - 5.7 \times 4.6 + (8.2)^2 \right) \div (-5.5)$$

$$(2.4 \times (-6.9)) \div (-1.6) + (-5.6) - (-3.3)^2 \quad (2.1 \times (-4.1) + (-0.2) - 8.3) \div (0.5)^2$$

$$(-0.3)^2 + 2.4 \times (3.8 - 1.25) \div (-5.1) \quad \left((6.8)^2 \div 3.4 \right) \times (0.5 + 3.3 - 5.1)$$

Order of Operations with Decimals (F) Answers

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Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & \left((8.3)^2 \div (-8.3) - 8.5 \right) \times ((-5.8) + 2.6) \\ &= \left(68.89 \div (-8.3) - 8.5 \right) \times ((-5.8) + 2.6) \\ &= \left((-8.3) - 8.5 \right) \times ((-5.8) + 2.6) \\ &= (-16.8) \times ((-5.8) + 2.6) \\ &= (-16.8) \times (-3.2) \\ &= 53.76 \end{aligned}$$

$$\begin{aligned} & \left(9.8 - 5.7 \times 4.6 + (8.2)^2 \right) \div (-5.5) \\ &= (9.8 - 5.7 \times 4.6 + 67.24) \div (-5.5) \\ &= (9.8 - 26.22 + 67.24) \div (-5.5) \\ &= \left((-16.42) + 67.24 \right) \div (-5.5) \\ &= 50.82 \div (-5.5) \\ &= -9.24 \end{aligned}$$

$$\begin{aligned} & \left(2.4 \times (-6.9) \right) \div (-1.6) + (-5.6) - (-3.3)^2 \\ &= (-16.56) \div (-1.6) + (-5.6) - (-3.3)^2 \\ &= (-16.56) \div (-1.6) + (-5.6) - 10.89 \\ &= 10.35 + (-5.6) - 10.89 \\ &= 4.75 - 10.89 \\ &= -6.14 \end{aligned}$$

$$\begin{aligned} & \left(2.1 \times (-4.1) + (-0.2) - 8.3 \right) \div (0.5)^2 \\ &= \left((-8.61) + (-0.2) - 8.3 \right) \div (0.5)^2 \\ &= \left((-8.81) - 8.3 \right) \div (0.5)^2 \\ &= (-17.11) \div (0.5)^2 \\ &= (-17.11) \div 0.25 \\ &= -68.44 \end{aligned}$$

$$\begin{aligned} & (-0.3)^2 + 2.4 \times (3.8 - 1.25) \div (-5.1) \\ &= (-0.3)^2 + 2.4 \times 2.55 \div (-5.1) \\ &= 0.09 + 2.4 \times 2.55 \div (-5.1) \\ &= 0.09 + 6.12 \div (-5.1) \\ &= 0.09 + (-1.2) \\ &= -1.11 \end{aligned}$$

$$\begin{aligned} & \left((6.8)^2 \div 3.4 \right) \times (0.5 + 3.3 - 5.1) \\ &= (46.24 \div 3.4) \times (0.5 + 3.3 - 5.1) \\ &= 13.6 \times (0.5 + 3.3 - 5.1) \\ &= 13.6 \times (3.8 - 5.1) \\ &= 13.6 \times (-1.3) \\ &= -17.68 \end{aligned}$$