

Order of Operations with Decimals (I)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\left((1.8)^2 \div (-1.8)\right) \times ((-5.3) - 0.7 + (-7.7)) \quad \left(1.6 \div (-0.4)^2 - (-0.7) + (-5.5)\right) \times (-9.5)$$

$$\left((-1.8) + (1.8)^2 - (-3.8) \times (-9.6)\right) \div 0.5 \quad (((-9.2) + 9.2) \times 0.9)^2 \div 1.1 - (-0.3)$$

$$(8.5)^2 - 4.9 \times ((-6.3) \div (-2.1) + 0.5) \quad 4.6 + (4.5)^2 \div (5.3 - 8.3) \times (-4.6)$$

Order of Operations with Decimals (I) Answers

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Solve each expression using the correct order of operations.

$$\begin{aligned}& \left((1.8)^2 \div (-1.8) \right) \times ((-5.3) - 0.7 + (-7.7)) \\&= \left(3.24 \div (-1.8) \right) \times ((-5.3) - 0.7 + (-7.7)) \\&= (-1.8) \times ((-5.3) - 0.7 + (-7.7)) \\&= (-1.8) \times ((-6) + (-7.7)) \\&= (-1.8) \times (-13.7) \\&= 24.66\end{aligned}$$

$$\begin{aligned}& \left(1.6 \div (-0.4)^2 - (-0.7) + (-5.5) \right) \times (-9.5) \\&= (1.6 \div 0.16 - (-0.7) + (-5.5)) \times (-9.5) \\&= (10 - (-0.7) + (-5.5)) \times (-9.5) \\&= (10.7 + (-5.5)) \times (-9.5) \\&= 5.2 \times (-9.5) \\&= -49.4\end{aligned}$$

$$\begin{aligned}& ((-1.8) + (1.8)^2 - (-3.8) \times (-9.6)) \div 0.5 \\&= ((-1.8) + 3.24 - (-3.8) \times (-9.6)) \div 0.5 \\&= ((-1.8) + 3.24 - 36.48) \div 0.5 \\&= (1.44 - 36.48) \div 0.5 \\&= (-35.04) \div 0.5 \\&= -70.08\end{aligned}$$

$$\begin{aligned}& \left(((-9.2) + 9.2) \times 0.9 \right)^2 \div 1.1 - (-0.3) \\&= (0 \times 0.9)^2 \div 1.1 - (-0.3) \\&= 0^2 \div 1.1 - (-0.3) \\&= 0 \div 1.1 - (-0.3) \\&= 0 - (-0.3) \\&= 0.3\end{aligned}$$

$$\begin{aligned}& (8.5)^2 - 4.9 \times ((-6.3) \div (-2.1) + 0.5) \\&= (8.5)^2 - 4.9 \times (3 + 0.5) \\&= (8.5)^2 - 4.9 \times 3.5 \\&= 72.25 - 4.9 \times 3.5 \\&= 72.25 - 17.15 \\&= 55.1\end{aligned}$$

$$\begin{aligned}& 4.6 + (4.5)^2 \div (5.3 - 8.3) \times (-4.6) \\&= 4.6 + (4.5)^2 \div (-3) \times (-4.6) \\&= 4.6 + 20.25 \div (-3) \times (-4.6) \\&= 4.6 + (-6.75) \times (-4.6) \\&= 4.6 + 31.05 \\&= 35.65\end{aligned}$$