

Order of Operations with Decimals (H)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$(9.7)^2 + 4.3 \times (4.6 \div (-2.3) - 3.9)$$

$$((-8.5) - (-6.6) + (-9.6)) \times 1.8 \div (-0.6)^2$$

$$(1.25 - (0.9)^2 + (-2.8)) \times (3.75 \div (-0.5))$$

$$(8.5 - (-4.2) \times (-2.1) + (0.4)^2) \div (-3.2)$$

$$((-7.2) + 3.5 \times 5.8 - 9.2)^2 \div 4.5$$

$$(2.8)^2 \div (3.1 - (-2.5)) \times ((-5.4) + 1.7)$$

Order of Operations with Decimals (H) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned}(9.7)^2 + 4.3 \times (4.6 \div (-2.3) - 3.9) \\ &= (9.7)^2 + 4.3 \times ((-2) - 3.9) \\ &= (9.7)^2 + 4.3 \times (-5.9) \\ &= 94.09 + 4.3 \times (-5.9) \\ &= 94.09 + (-25.37) \\ &= 68.72\end{aligned}$$

$$\begin{aligned}((-8.5) - (-6.6) + (-9.6)) \times 1.8 \div (-0.6)^2 \\ &= ((-1.9) + (-9.6)) \times 1.8 \div (-0.6)^2 \\ &= (-11.5) \times 1.8 \div (-0.6)^2 \\ &= (-11.5) \times 1.8 \div 0.36 \\ &= (-20.7) \div 0.36 \\ &= -57.5\end{aligned}$$

$$\begin{aligned}(1.25 - (0.9)^2 + (-2.8)) \times (3.75 \div (-0.5)) \\ &= (1.25 - 0.81 + (-2.8)) \times (3.75 \div (-0.5)) \\ &= (0.44 + (-2.8)) \times (3.75 \div (-0.5)) \\ &= (-2.36) \times (3.75 \div (-0.5)) \\ &= (-2.36) \times (-7.5) \\ &= 17.7\end{aligned}$$

$$\begin{aligned}(8.5 - (-4.2) \times (-2.1) + (0.4)^2) \div (-3.2) \\ &= (8.5 - (-4.2) \times (-2.1) + 0.16) \div (-3.2) \\ &= (8.5 - 8.82 + 0.16) \div (-3.2) \\ &= ((-0.32) + 0.16) \div (-3.2) \\ &= (-0.16) \div (-3.2) \\ &= 0.05\end{aligned}$$

$$\begin{aligned}((-7.2) + 3.5 \times 5.8 - 9.2)^2 \div 4.5 \\ &= ((-7.2) + 20.3 - 9.2)^2 \div 4.5 \\ &= (13.1 - 9.2)^2 \div 4.5 \\ &= (3.9)^2 \div 4.5 \\ &= 15.21 \div 4.5 \\ &= 3.38\end{aligned}$$

$$\begin{aligned}(2.8)^2 \div (3.1 - (-2.5)) \times ((-5.4) + 1.7) \\ &= (2.8)^2 \div 5.6 \times ((-5.4) + 1.7) \\ &= (2.8)^2 \div 5.6 \times (-3.7) \\ &= 7.84 \div 5.6 \times (-3.7) \\ &= 1.4 \times (-3.7) \\ &= -5.18\end{aligned}$$