

Order of Operations with Decimals (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$((-7.5) \times (2.8)^2) \div 1.25 + 6.4 - 9.6 - (-2.5)$$

$$((1.8)^2 \div (-1.8)) \times (-9.1) - (6.3)^2 + 4.3$$

$$((-2.1) + 2.1) \div 8.8 \times (7.3)^2 - (-2.2)^2$$

Order of Operations with Decimals (G) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & ((-7.5) \times (2.8)^2) \div 1.25 + 6.4 - 9.6 - (-2.5) \\ &= ((-7.5) \times 7.84) \div 1.25 + 6.4 - 9.6 - (-2.5) \\ &= (-58.8) \div 1.25 + 6.4 - 9.6 - (-2.5) \\ &= (-47.04) + 6.4 - 9.6 - (-2.5) \\ &= (-40.64) - 9.6 - (-2.5) \\ &= (-50.24) - (-2.5) \\ &= -47.74 \end{aligned}$$

$$\begin{aligned} & ((1.8)^2 \div (-1.8)) \times (-9.1) - (6.3)^2 + 4.3 \\ &= (3.24 \div (-1.8)) \times (-9.1) - (6.3)^2 + 4.3 \\ &= (-1.8) \times (-9.1) - (6.3)^2 + 4.3 \\ &= (-1.8) \times (-9.1) - 39.69 + 4.3 \\ &= 16.38 - 39.69 + 4.3 \\ &= (-23.31) + 4.3 \\ &= -19.01 \end{aligned}$$

$$\begin{aligned} & ((-2.1) + 2.1) \div 8.8 \times (7.3)^2 - (-2.2)^2 \\ &= 0 \div 8.8 \times (7.3)^2 - (-2.2)^2 \\ &= 0 \div 8.8 \times 53.29 - (-2.2)^2 \\ &= 0 \div 8.8 \times 53.29 - 4.84 \\ &= 0 \times 53.29 - 4.84 \\ &= 0 - 4.84 \\ &= -4.84 \end{aligned}$$