

Order of Operations with Decimals (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$((2.1)^2 + 9.2 \times 2.2) \div 1.25 - 3.9$$

$$((5.3)^2 + 4.3) \div 4.1 \times 1.3 - 8.9$$

$$7.4 + 5.8 - (7.6)^2 \div (3.8 \times 1.6)$$

$$((3.1)^2 - 2.2) \div 1.9 \times 9.2 + 2.2$$

$$(9.6 \div 6.4) \times 7.2 - 6.3 + (5.5)^2$$

$$4.1 + (2.4)^2 \div (2.7 - 1.9) \times 2.8$$

$$2.2 \times (2.2 + (4.5)^2 - 3.3 \div 4.4)$$

$$9.9 \times ((2.3 + 4.8 - 7.1)^3 \div 1.25)$$

Order of Operations with Decimals (G) Answers

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Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & ((2.1)^2 + 9.2 \times 2.2) \div 1.25 - 3.9 \\ &= (4.41 + 9.2 \times 2.2) \div 1.25 - 3.9 \\ &= (4.41 + 20.24) \div 1.25 - 3.9 \\ &= 24.65 \div 1.25 - 3.9 \\ &= 19.72 - 3.9 \\ &= 15.82 \end{aligned}$$

$$\begin{aligned} & ((5.3)^2 + 4.3) \div 4.1 \times 1.3 - 8.9 \\ &= (28.09 + 4.3) \div 4.1 \times 1.3 - 8.9 \\ &= 32.39 \div 4.1 \times 1.3 - 8.9 \\ &= 7.9 \times 1.3 - 8.9 \\ &= 10.27 - 8.9 \\ &= 1.37 \end{aligned}$$

$$\begin{aligned} & 7.4 + 5.8 - (7.6)^2 \div (3.8 \times 1.6) \\ &= 7.4 + 5.8 - (7.6)^2 \div 6.08 \\ &= 7.4 + 5.8 - 57.76 \div 6.08 \\ &= 7.4 + 5.8 - 9.5 \\ &= 13.2 - 9.5 \\ &= 3.7 \end{aligned}$$

$$\begin{aligned} & ((3.1)^2 - 2.2) \div 1.9 \times 9.2 + 2.2 \\ &= (9.61 - 2.2) \div 1.9 \times 9.2 + 2.2 \\ &= 7.41 \div 1.9 \times 9.2 + 2.2 \\ &= 3.9 \times 9.2 + 2.2 \\ &= 35.88 + 2.2 \\ &= 38.08 \end{aligned}$$

$$\begin{aligned} & (9.6 \div 6.4) \times 7.2 - 6.3 + (5.5)^2 \\ &= 1.5 \times 7.2 - 6.3 + (5.5)^2 \\ &= 1.5 \times 7.2 - 6.3 + 30.25 \\ &= 10.8 - 6.3 + 30.25 \\ &= 4.5 + 30.25 \\ &= 34.75 \end{aligned}$$

$$\begin{aligned} & 4.1 + (2.4)^2 \div (2.7 - 1.9) \times 2.8 \\ &= 4.1 + (2.4)^2 \div 0.8 \times 2.8 \\ &= 4.1 + 5.76 \div 0.8 \times 2.8 \\ &= 4.1 + 7.2 \times 2.8 \\ &= 4.1 + 20.16 \\ &= 24.26 \end{aligned}$$

$$\begin{aligned} & 2.2 \times (2.2 + (4.5)^2 - 3.3 \div 4.4) \\ &= 2.2 \times (2.2 + 20.25 - 3.3 \div 4.4) \\ &= 2.2 \times (2.2 + 20.25 - 0.75) \\ &= 2.2 \times (22.45 - 0.75) \\ &= 2.2 \times 21.7 \\ &= 47.74 \end{aligned}$$

$$\begin{aligned} & 9.9 \times ((2.3 + 4.8 - 7.1)^3 \div 1.25) \\ &= 9.9 \times ((7.1 - 7.1)^3 \div 1.25) \\ &= 9.9 \times (0^3 \div 1.25) \\ &= 9.9 \times (0 \div 1.25) \\ &= 9.9 \times 0 \\ &= 0 \end{aligned}$$