

Order of Operations with Decimals (G)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$3.3 \times (9.4 - 7.9) \div 1.1 + 7.8 + (3.1)^2$$

$$(7.3 \div (3.3 - 2.3)^3) \times 8.1 + 1.6 - 6.6$$

$$(9.3 - 8.3) \div 2.5 \times 2.2 + (9.2)^2 - 4.1$$

$$9.1 + 4.8 \times ((8.3 - 3.5)^2 \div (5.1 + 7.7))$$

$$((6.3 - 4.7)^2 \div 0.2) \times 4.9 + (0.4)^2$$

$$((8.9 - 7.4)^2 \times 9.2) \div (1.1 + 4.3 + 2.1)$$

Order of Operations with Decimals (G) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & 3.3 \times (9.4 - 7.9) \div 1.1 + 7.8 + (3.1)^2 \\ & = 3.3 \times 1.5 \div 1.1 + 7.8 + (3.1)^2 \\ & = 3.3 \times 1.5 \div 1.1 + 7.8 + 9.61 \\ & = 4.95 \div 1.1 + 7.8 + 9.61 \\ & = 4.5 + 7.8 + 9.61 \\ & = 12.3 + 9.61 \\ & = 21.91 \end{aligned}$$

$$\begin{aligned} & (7.3 \div (3.3 - 2.3)^3) \times 8.1 + 1.6 - 6.6 \\ & = (7.3 \div 1^3) \times 8.1 + 1.6 - 6.6 \\ & = (7.3 \div 1) \times 8.1 + 1.6 - 6.6 \\ & = 7.3 \times 8.1 + 1.6 - 6.6 \\ & = 59.13 + 1.6 - 6.6 \\ & = 60.73 - 6.6 \\ & = 54.13 \end{aligned}$$

$$\begin{aligned} & (9.3 - 8.3) \div 2.5 \times 2.2 + (9.2)^2 - 4.1 \\ & = 1 \div 2.5 \times 2.2 + (9.2)^2 - 4.1 \\ & = 1 \div 2.5 \times 2.2 + 84.64 - 4.1 \\ & = 0.4 \times 2.2 + 84.64 - 4.1 \\ & = 0.88 + 84.64 - 4.1 \\ & = 85.52 - 4.1 \\ & = 81.42 \end{aligned}$$

$$\begin{aligned} & 9.1 + 4.8 \times ((8.3 - 3.5)^2 \div (5.1 + 7.7)) \\ & = 9.1 + 4.8 \times ((4.8)^2 \div (5.1 + 7.7)) \\ & = 9.1 + 4.8 \times ((4.8)^2 \div 12.8) \\ & = 9.1 + 4.8 \times (23.04 \div 12.8) \\ & = 9.1 + 4.8 \times 1.8 \\ & = 9.1 + 8.64 \\ & = 17.74 \end{aligned}$$

$$\begin{aligned} & ((6.3 - 4.7)^2 \div 0.2) \times 4.9 + (0.4)^2 \\ & = ((1.6)^2 \div 0.2) \times 4.9 + (0.4)^2 \\ & = (2.56 \div 0.2) \times 4.9 + (0.4)^2 \\ & = 12.8 \times 4.9 + (0.4)^2 \\ & = 12.8 \times 4.9 + 0.16 \\ & = 62.72 + 0.16 \\ & = 62.88 \end{aligned}$$

$$\begin{aligned} & ((8.9 - 7.4)^2 \times 9.2) \div (1.1 + 4.3 + 2.1) \\ & = ((1.5)^2 \times 9.2) \div (1.1 + 4.3 + 2.1) \\ & = (2.25 \times 9.2) \div (1.1 + 4.3 + 2.1) \\ & = 20.7 \div (1.1 + 4.3 + 2.1) \\ & = 20.7 \div (5.4 + 2.1) \\ & = 20.7 \div 7.5 \\ & = 2.76 \end{aligned}$$