

Order of Operations with Decimals (B)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$6.8 \div 1.25 \times (5.8 + 2.9 - 7.7)^3$$

$$5.7 \times \left((6.2)^2 \div 3.1 - 1.6 + 6.6 \right)$$

$$(2.8 \div 2.8)^3 \times (4.7 - 4.5 + 7.8)$$

$$8.2 \times \left(2.9 + 3.5 - 9.8 \div (2.8)^2 \right)$$

$$\left((1.9 + 4.5 - 4.4)^2 \div 2.5 \right) \times 7.6$$

$$4.4 \times \left((9.2)^2 \div 4.6 + 7.1 - 8.3 \right)$$

$$\left((5.4)^2 \div 2.7 \right) \times 7.7 + 1.8 - 8.2$$

$$\left(2.4 + (5.2)^2 - 8.3 \times 2.6 \right) \div 1.2$$

Order of Operations with Decimals (B) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & 6.8 \div 1.25 \times (5.8 + 2.9 - 7.7)^3 \\ & = 6.8 \div 1.25 \times (8.7 - 7.7)^3 \\ & = 6.8 \div 1.25 \times 1^3 \\ & = 6.8 \div 1.25 \times 1 \\ & = 5.44 \times 1 \\ & = 5.44 \end{aligned}$$

$$\begin{aligned} & 5.7 \times ((6.2)^2 \div 3.1 - 1.6 + 6.6) \\ & = 5.7 \times (38.44 \div 3.1 - 1.6 + 6.6) \\ & = 5.7 \times (12.4 - 1.6 + 6.6) \\ & = 5.7 \times (10.8 + 6.6) \\ & = 5.7 \times 17.4 \\ & = 99.18 \end{aligned}$$

$$\begin{aligned} & (2.8 \div 2.8)^3 \times (4.7 - 4.5 + 7.8) \\ & = 1^3 \times (4.7 - 4.5 + 7.8) \\ & = 1^3 \times (0.2 + 7.8) \\ & = 1^3 \times 8 \\ & = 1 \times 8 \\ & = 8 \end{aligned}$$

$$\begin{aligned} & 8.2 \times (2.9 + 3.5 - 9.8 \div (2.8)^2) \\ & = 8.2 \times (2.9 + 3.5 - 9.8 \div 7.84) \\ & = 8.2 \times (2.9 + 3.5 - 1.25) \\ & = 8.2 \times (6.4 - 1.25) \\ & = 8.2 \times 5.15 \\ & = 42.23 \end{aligned}$$

$$\begin{aligned} & ((1.9 + 4.5 - 4.4)^2 \div 2.5) \times 7.6 \\ & = ((6.4 - 4.4)^2 \div 2.5) \times 7.6 \\ & = (2^2 \div 2.5) \times 7.6 \\ & = (4 \div 2.5) \times 7.6 \\ & = 1.6 \times 7.6 \\ & = 12.16 \end{aligned}$$

$$\begin{aligned} & 4.4 \times ((9.2)^2 \div 4.6 + 7.1 - 8.3) \\ & = 4.4 \times (84.64 \div 4.6 + 7.1 - 8.3) \\ & = 4.4 \times (18.4 + 7.1 - 8.3) \\ & = 4.4 \times (25.5 - 8.3) \\ & = 4.4 \times 17.2 \\ & = 75.68 \end{aligned}$$

$$\begin{aligned} & ((5.4)^2 \div 2.7) \times 7.7 + 1.8 - 8.2 \\ & = (29.16 \div 2.7) \times 7.7 + 1.8 - 8.2 \\ & = 10.8 \times 7.7 + 1.8 - 8.2 \\ & = 83.16 + 1.8 - 8.2 \\ & = 84.96 - 8.2 \\ & = 76.76 \end{aligned}$$

$$\begin{aligned} & (2.4 + (5.2)^2 - 8.3 \times 2.6) \div 1.2 \\ & = (2.4 + 27.04 - 8.3 \times 2.6) \div 1.2 \\ & = (2.4 + 27.04 - 21.58) \div 1.2 \\ & = (29.44 - 21.58) \div 1.2 \\ & = 7.86 \div 1.2 \\ & = 6.55 \end{aligned}$$