

Order of Operations with Decimals (D)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$(4.5)^2 - 9.6 + 1.4 \times (1.6 \div (2.2 - 1.8))$$

$$((5.3 + 3.3) \times 5.4) \div (1.5)^2 - 1.4 - 4.3$$

$$8.8 - 4.2 \div (5.6 + 4.9) \times 6.3 + (7.7)^2$$

$$(2.4 \div 1.5) \times 9.8 + (5.7)^2 - (2.7)^2$$

$$(2.2 \times (2.1 + 2.6 - 4.7)^3) \div (3.6 \div 2.5)$$

$$(7.2 \div (9.2 + 2.1 - 4.1))^2 \times (6.7)^2$$

Order of Operations with Decimals (D) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned}(4.5)^2 - 9.6 + 1.4 \times (1.6 \div (2.2 - 1.8)) \\ &= (4.5)^2 - 9.6 + 1.4 \times (1.6 \div 0.4) \\ &= (4.5)^2 - 9.6 + 1.4 \times 4 \\ &= 20.25 - 9.6 + 1.4 \times 4 \\ &= 20.25 - 9.6 + 5.6 \\ &= 10.65 + 5.6 \\ &= 16.25\end{aligned}$$

$$\begin{aligned}((5.3 + 3.3) \times 5.4) \div (1.5)^2 - 1.4 - 4.3 \\ &= (8.6 \times 5.4) \div (1.5)^2 - 1.4 - 4.3 \\ &= 46.44 \div (1.5)^2 - 1.4 - 4.3 \\ &= 46.44 \div 2.25 - 1.4 - 4.3 \\ &= 20.64 - 1.4 - 4.3 \\ &= 19.24 - 4.3 \\ &= 14.94\end{aligned}$$

$$\begin{aligned}8.8 - 4.2 \div (5.6 + 4.9) \times 6.3 + (7.7)^2 \\ &= 8.8 - 4.2 \div 10.5 \times 6.3 + (7.7)^2 \\ &= 8.8 - 4.2 \div 10.5 \times 6.3 + 59.29 \\ &= 8.8 - 0.4 \times 6.3 + 59.29 \\ &= 8.8 - 2.52 + 59.29 \\ &= 6.28 + 59.29 \\ &= 65.57\end{aligned}$$

$$\begin{aligned}(2.4 \div 1.5) \times 9.8 + (5.7)^2 - (2.7)^2 \\ &= 1.6 \times 9.8 + (5.7)^2 - (2.7)^2 \\ &= 1.6 \times 9.8 + 32.49 - (2.7)^2 \\ &= 1.6 \times 9.8 + 32.49 - 7.29 \\ &= 15.68 + 32.49 - 7.29 \\ &= 48.17 - 7.29 \\ &= 40.88\end{aligned}$$

$$\begin{aligned}(2.2 \times (2.1 + 2.6 - 4.7)^3) \div (3.6 \div 2.5) \\ &= (2.2 \times (4.7 - 4.7)^3) \div (3.6 \div 2.5) \\ &= (2.2 \times 0^3) \div (3.6 \div 2.5) \\ &= (2.2 \times 0) \div (3.6 \div 2.5) \\ &= 0 \div (3.6 \div 2.5) \\ &= 0 \div 1.44 \\ &= 0\end{aligned}$$

$$\begin{aligned}(7.2 \div (9.2 + 2.1 - 4.1))^2 \times (6.7)^2 \\ &= (7.2 \div (11.3 - 4.1))^2 \times (6.7)^2 \\ &= (7.2 \div 7.2)^2 \times (6.7)^2 \\ &= 1^2 \times (6.7)^2 \\ &= 1 \times (6.7)^2 \\ &= 1 \times 44.89 \\ &= 44.89\end{aligned}$$