

Order of Operations with Decimals (F)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$9.7 - (1.8)^2 \div (2.3 + 6.7)$$

$$(8.7 - (1.6)^2) \times 1.5 + 4.7$$

$$(1.7)^2 + 9.7 \times (6.5 - 3.1)$$

$$(5.4 \times 4.4 - (2.4)^2) \div 1.6$$

$$(2.9 - (1.4)^2) \div 4.7 \times 2.6$$

$$((1.2)^2 + 2.9 - 2.4) \times 5.5$$

$$1.8 \div 1.2 \times (5.3 + 2.5)^2$$

$$(9.7 - 8.9) \times 1.3 + (4.5)^2$$

Order of Operations with Decimals (F) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & 9.7 - (1.8)^2 \div (2.3 + 6.7) \\ &= 9.7 - (1.8)^2 \div 9 \\ &= 9.7 - 3.24 \div 9 \\ &= 9.7 - 0.36 \\ &= 9.34 \end{aligned}$$

$$\begin{aligned} & (8.7 - (1.6)^2) \times 1.5 + 4.7 \\ &= (8.7 - 2.56) \times 1.5 + 4.7 \\ &= 6.14 \times 1.5 + 4.7 \\ &= 9.21 + 4.7 \\ &= 13.91 \end{aligned}$$

$$\begin{aligned} & (1.7)^2 + 9.7 \times (6.5 - 3.1) \\ &= (1.7)^2 + 9.7 \times 3.4 \\ &= 2.89 + 9.7 \times 3.4 \\ &= 2.89 + 32.98 \\ &= 35.87 \end{aligned}$$

$$\begin{aligned} & (5.4 \times 4.4 - (2.4)^2) \div 1.6 \\ &= (5.4 \times 4.4 - 5.76) \div 1.6 \\ &= (23.76 - 5.76) \div 1.6 \\ &= 18 \div 1.6 \\ &= 11.25 \end{aligned}$$

$$\begin{aligned} & (2.9 - (1.4)^2) \div 4.7 \times 2.6 \\ &= (2.9 - 1.96) \div 4.7 \times 2.6 \\ &= 0.94 \div 4.7 \times 2.6 \\ &= 0.2 \times 2.6 \\ &= 0.52 \end{aligned}$$

$$\begin{aligned} & ((1.2)^2 + 2.9 - 2.4) \times 5.5 \\ &= (1.44 + 2.9 - 2.4) \times 5.5 \\ &= (4.34 - 2.4) \times 5.5 \\ &= 1.94 \times 5.5 \\ &= 10.67 \end{aligned}$$

$$\begin{aligned} & 1.8 \div 1.2 \times (5.3 + 2.5)^2 \\ &= 1.8 \div 1.2 \times (7.8)^2 \\ &= 1.8 \div 1.2 \times 60.84 \\ &= 1.5 \times 60.84 \\ &= 91.26 \end{aligned}$$

$$\begin{aligned} & (9.7 - 8.9) \times 1.3 + (4.5)^2 \\ &= 0.8 \times 1.3 + (4.5)^2 \\ &= 0.8 \times 1.3 + 20.25 \\ &= 1.04 + 20.25 \\ &= 21.29 \end{aligned}$$