

Order of Operations with Decimals (I)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$(4.2 \div 0.2) \times (0.5)^2 - 0.8 + (7.1)^2$$

$$(5.4 \times 5.7) \div 9.5 + (3.6)^2 - 4.3 + 9.1$$

$$5.7 \times (9.2 + (6.7)^2 - (7.3)^2) \div 0.2$$

$$(8.7 + 3.4 - 1.1) \times ((1.2)^2 \div (5.5 - 1.5))$$

$$(1.8 + 2.4)^2 \times (9.2 - 7.2)^2 \div 1.2$$

$$(8.7 \div (5.3 - 0.5 + 3.9))^2 \times (9.2)^2$$

Order of Operations with Decimals (I) Answers

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$$\begin{aligned} & (4.2 \div 0.2) \times (0.5)^2 - 0.8 + (7.1)^2 \\ &= 21 \times (0.5)^2 - 0.8 + (7.1)^2 \\ &= 21 \times 0.25 - 0.8 + (7.1)^2 \\ &= 21 \times 0.25 - 0.8 + 50.41 \\ &= 5.25 - 0.8 + 50.41 \\ &= 4.45 + 50.41 \\ &= 54.86 \end{aligned}$$

$$\begin{aligned} & (5.4 \times 5.7) \div 9.5 + (3.6)^2 - 4.3 + 9.1 \\ &= 30.78 \div 9.5 + (3.6)^2 - 4.3 + 9.1 \\ &= 30.78 \div 9.5 + 12.96 - 4.3 + 9.1 \\ &= 3.24 + 12.96 - 4.3 + 9.1 \\ &= 16.2 - 4.3 + 9.1 \\ &= 11.9 + 9.1 \\ &= 21 \end{aligned}$$

$$\begin{aligned} & 5.7 \times (9.2 + (6.7)^2 - (7.3)^2) \div 0.2 \\ &= 5.7 \times (9.2 + 44.89 - (7.3)^2) \div 0.2 \\ &= 5.7 \times (9.2 + 44.89 - 53.29) \div 0.2 \\ &= 5.7 \times (54.09 - 53.29) \div 0.2 \\ &= 5.7 \times 0.8 \div 0.2 \\ &= 4.56 \div 0.2 \\ &= 22.8 \end{aligned}$$

$$\begin{aligned} & (8.7 + 3.4 - 1.1) \times ((1.2)^2 \div (5.5 - 1.5)) \\ &= (12.1 - 1.1) \times ((1.2)^2 \div (5.5 - 1.5)) \\ &= 11 \times ((1.2)^2 \div (5.5 - 1.5)) \\ &= 11 \times ((1.2)^2 \div 4) \\ &= 11 \times (1.44 \div 4) \\ &= 11 \times 0.36 \\ &= 3.96 \end{aligned}$$

$$\begin{aligned} & (1.8 + 2.4)^2 \times (9.2 - 7.2)^2 \div 1.2 \\ &= (4.2)^2 \times (9.2 - 7.2)^2 \div 1.2 \\ &= (4.2)^2 \times 2^2 \div 1.2 \\ &= 17.64 \times 2^2 \div 1.2 \\ &= 17.64 \times 4 \div 1.2 \\ &= 70.56 \div 1.2 \\ &= 58.8 \end{aligned}$$

$$\begin{aligned} & (8.7 \div (5.3 - 0.5 + 3.9))^2 \times (9.2)^2 \\ &= (8.7 \div (4.8 + 3.9))^2 \times (9.2)^2 \\ &= (8.7 \div 8.7)^2 \times (9.2)^2 \\ &= 1^2 \times (9.2)^2 \\ &= 1 \times (9.2)^2 \\ &= 1 \times 84.64 \\ &= 84.64 \end{aligned}$$