Order of Operations with Decimals (I)

Name:

Date:

Simplify 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:

Simplify each expression using the correct order of operations.

$$\frac{\left(4.2 \div 0.2\right) \times \left(0.5\right)^{2} - 0.8 + \left(7.1\right)^{2}}{= 21 \times \underline{\left(0.5\right)^{2}} - 0.8 + \left(7.1\right)^{2}}$$

$$= 21 \times 0.25 - 0.8 + \underline{\left(7.1\right)^{2}}$$

$$= 21 \times 0.25 - 0.8 + 50.41$$

$$= \underline{5.25 - 0.8} + 50.41$$

$$= 21 \times 0.25 - 0.8 + 50.41$$

$$= 5.25 - 0.8 + 50.41$$

$$= 4.45 + 50.41$$

$$= 54.86$$

$$= 3.24 + 12.96 - 4.3 + 9.1$$

$$= 16.2 - 4.3 + 9.1$$

$$= 11.9 + 9.1$$

$$= 21$$

$$5.7 \times \left(9.2 + \underline{(6.7)^2} - (7.3)^2\right) \div 0.2$$

$$= 5.7 \times \left(9.2 + 44.89 - \underline{(7.3)^2}\right) \div 0.2$$

$$= 5.7 \times \left(9.2 + 44.89 - 53.29\right) \div 0.2$$

$$= 5.7 \times \left(\underline{54.09 - 53.29}\right) \div 0.2$$

$$= \underline{5.7 \times 0.8} \div 0.2$$

$$= \underline{4.56 \div 0.2}$$

$$= 22.8$$

$$\frac{(8.7 + 3.4 - 1.1) \times ((1.2)^2 \div (5.5 - 1.5))}{= (12.1 - 1.1) \times ((1.2)^2 \div (5.5 - 1.5))}$$

$$= 11 \times ((1.2)^2 \div (\underline{5.5 - 1.5}))$$

$$= 11 \times (\underline{(1.2)^2} \div 4)$$

$$= 11 \times (\underline{1.44 \div 4})$$

$$= \underline{11 \times 0.36}$$

$$= 3.96$$

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

 $=30.78 \div 9.5 + {(3.6)}^{2} - 4.3 + 9.1$

 $= 30.78 \div 9.5 + 12.96 - 4.3 + 9.1$

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

$$= (4.2)^{2} \times (9.2 - 7.2)^{2} \div 1.2$$

$$= (4.2)^{2} \times 2^{2} \div 1.2$$

$$= 17.64 \times 2^{2} \div 1.2$$

$$= 17.64 \times 4 \div 1.2$$

$$= 70.56 \div 1.2$$

$$= 58.8$$

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

$$= (8.7 \div (4.8 + 3.9))^{2} \times (9.2)^{2}$$

$$= (8.7 \div 8.7)^{2} \times (9.2)^{2}$$

$$= 1^{2} \times (9.2)^{2}$$

$$= 1 \times (9.2)^{2}$$

$$= 1 \times 84.64$$

$$= 84.64$$