Order of Operations with Decimals (C)

Name:

Date:

Simplify each expression using the correct order of operations.

$$(8.4)^2 - 3.1 \times (2.5 + 3.5)$$

$$(1.2 + 1.4) \times (3.5)^2 - 9.6$$

$$(5.3 + 7.2 - 7.6)^2 \div 9.8$$

$$(2.5)^2 + 2.5 \times (9.9 - 3.5)$$

$$((1.5)^2 + 8.3) \times 6.4 - 7.9$$

$$(9.6)^2 + 2.5 \times (9.4 - 7.6)$$

$$((2.5)^2 + 3.2) \times 4.6 \div 1.4$$

$$(5.2)^2 - 1.7 \times (1.2 + 5.7)$$

Order of Operations with Decimals (C) Answers

Name: Date:

Simplify each expression using the correct order of operations.

$$(8.4)^2 - 3.1 \times (2.5 + 3.5)$$

$$=(8.4)^2-3.1\times6$$

$$= 70.56 - 3.1 \times 6$$

$$=70.56-18.6$$

$$(1.2 + 1.4) \times (3.5)^2 - 9.6$$

$$=2.6\times(3.5)^2-9.6$$

$$= 2.6 \times 12.25 - 9.6$$

$$= 31.85 - 9.6$$

$$= 22.25$$

$$(5.3 + 7.2 - 7.6)^2 \div 9.8$$

$$= \left(12.5 - 7.6\right)^2 \div 9.8$$

$$= (4.9)^2 \div 9.8$$

$$= 24.01 \div 9.8$$

$$= 2.45$$

$$(2.5)^2 + 2.5 \times (9.9 - 3.5)$$

$$= (2.5)^2 + 2.5 \times 6.4$$

$$= 6.25 + 2.5 \times 6.4$$

$$= 6.25 + 16$$

$$= 22.25$$

$$\left((1.5)^2 + 8.3 \right) \times 6.4 - 7.9$$

$$= (2.25 + 8.3) \times 6.4 - 7.9$$

$$= 10.55 \times 6.4 - 7.9$$

$$=67.52-7.9$$

$$= 59.62$$

$$(9.6)^2 + 2.5 \times (9.4 - 7.6)$$

$$= (9.6)^2 + 2.5 \times 1.8$$

$$= 92.16 + 2.5 \times 1.8$$

$$=$$
 $92.16 + 4.5$

$$= 96.66$$

$$\left(\frac{(2.5)^2}{1.4} + 3.2\right) \times 4.6 \div 1.4$$

$$= (6.25 + 3.2) \times 4.6 \div 1.4$$

$$= 9.45 \times 4.6 \div 1.4$$

$$= 43.47 \div 1.4$$

$$= 31.05$$

$$(5.2)^2 - 1.7 \times (1.2 + 5.7)$$

$$= (5.2)^2 - 1.7 \times 6.9$$

$$= 27.04 - 1.7 \times 6.9$$

$$= 27.04 - 11.73$$