## Order of Operations with Decimals (E)

Name:

Date:

Simplify each expression using the correct order of operations.

$$5.6 \times ((3.5)^2 - 9.1 + 6.4)$$

$$1.25 - 2.1 \times ((1.6)^2 \div 6.4)$$

$$5.5 \times (7.8 + 4.8 - (2.6)^2)$$

$$(2.8 - 2.8) \times 3.75 + (4.5)^2$$

$$(6.5)^2 \times (2.5 + 7.1 - 7.8)$$

$$(7.2)^2 - 4.9 \times (5.1 + 3.1)$$

$$((2.7)^2 \div 8.1) \times 3.2 + 8.7$$

$$(3.9)^2 \div (6.5 - 5.2) \times 4.8$$

## Order of Operations with Decimals (E) Answers

Name: Date:

Simplify each expression using the correct order of operations.

$$5.6 \times \left( (3.5)^2 - 9.1 + 6.4 \right)$$

$$= 5.6 \times \left( \underline{12.25 - 9.1} + 6.4 \right)$$

$$= 5.6 \times (3.15 + 6.4)$$

$$= 5.6 \times 9.55$$

$$= 53.48$$

$$1.25 - 2.1 \times \left( \frac{(1.6)^2}{2} \div 6.4 \right)$$

$$= 1.25 - 2.1 \times (2.56 \div 6.4)$$

$$= 1.25 - 2.1 \times 0.4$$

$$= 1.25 - 0.84$$

$$= 0.41$$

$$5.5 \times \left(7.8 + 4.8 - \frac{(2.6)^2}{}\right)$$

$$= 5.5 \times (7.8 + 4.8 - 6.76)$$

$$= 5.5 \times (12.6 - 6.76)$$

$$= 5.5 \times 5.84$$

$$= 32.12$$

$$(2.8 - 2.8) \times 3.75 + (4.5)^2$$

$$= 0 \times 3.75 + (4.5)^2$$

$$= 0 \times 3.75 + 20.25$$

$$= 0 + 20.25$$

$$= 20.25$$

$$(6.5)^2 \times (2.5 + 7.1 - 7.8)$$

$$= (6.5)^2 \times (9.6 - 7.8)$$

$$= (6.5)^2 \times 1.8$$

$$= 42.25 \times 1.8$$

$$= 42.25 \times 1.8$$

$$= 76.05$$

$$(7.2)^2 - 4.9 \times (5.1 + 3.1)$$

$$= (7.2)^2 - 4.9 \times 8.2$$

$$= 51.84 - 4.9 \times 8.2$$

$$= 51.84 - 40.18$$

$$= 11.66$$

$$((2.7)^2 \div 8.1) \times 3.2 + 8.7$$

$$= (7.29 \div 8.1) \times 3.2 + 8.7$$

$$= 0.9 \times 3.2 + 8.7$$

$$= 2.88 + 8.7$$

$$= 11.58$$

$$(3.9)^2 \div (6.5 - 5.2) \times 4.8$$

$$= (3.9)^2 \div 1.3 \times 4.8$$

$$= 15.21 \div 1.3 \times 4.8$$

$$= \underline{11.7 \times 4.8}$$