Order of Operations with Decimals (C)

Name:

Date:

Simplify each expression using the correct order of operations.

 $0.7 + (-8.8) \div 2.2 \times ((-8.7)^2 - (8.7)^2)$

$$(9.9 - 1.8 \times 5.5)^3 \div 1.6 + (-4.4) + 7.4$$

$$5.7 - (-7.1)^2 + (-1.6)^2 \times ((-5.5) \div (-0.2))$$

Order of Operations with Decimals (C) Answers

Name:

Date:

Simplify each expression using the correct order of operations.

$$0.7 + (-8.8) \div 2.2 \times ((-8.7)^2 - (8.7)^2)$$

= 0.7 + (-8.8) ÷ 2.2 × (75.69 - (8.7)^2)
= 0.7 + (-8.8) ÷ 2.2 × (75.69 - 75.69)
= 0.7 + (-8.8) ÷ 2.2 × 0
= 0.7 + (-4) × 0
= 0.7 + 0
= 0.7 + 0

$$(9.9 - 1.8 \times 5.5)^{3} \div 1.6 + (-4.4) + 7.4$$

= $(9.9 - 9.9)^{3} \div 1.6 + (-4.4) + 7.4$
= $0^{3} \div 1.6 + (-4.4) + 7.4$
= $0 \div 1.6 + (-4.4) + 7.4$
= $0 + (-4.4) + 7.4$
= $(-4.4) + 7.4$
= $(-4.4) + 7.4$
= 3

$$5.7 - (-7.1)^{2} + (-1.6)^{2} \times ((-5.5) \div (-0.2))$$

$$= 5.7 - (-7.1)^{2} + (-1.6)^{2} \times 27.5$$

$$= 5.7 - 50.41 + (-1.6)^{2} \times 27.5$$

$$= 5.7 - 50.41 + 2.56 \times 27.5$$

$$= 5.7 - 50.41 + 70.4$$

$$= (-44.71) + 70.4$$

$$= 25.69$$