

Order of Operations with Decimals (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(-5.7) \times (2.9 - 2.3 + (-2.8)^2 \div (-1.6))$$

$$2.2 \times ((-2.7) + 7.9 - 8.7)^2 \div 1.4$$

$$((-8.8) \div 8.8 - (-6.6)^2) \times (5.3 + (-4.8))$$

$$(0.4 \times (-1.5)) \div (-0.5) + 7.8 - (6.2)^2$$

$$((-5.1) \div (-0.6)) \times 1.5 - 1.4 + (-0.7)^2$$

$$(6.2 \times 8.7 + 6.6 - (1.3)^2) \div (-2.5)$$

Order of Operations with Decimals (C) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (-5.7) \times (2.9 - 2.3 + \underline{(-2.8)^2} \div (-1.6)) \\ &= (-5.7) \times (2.9 - 2.3 + \underline{7.84 \div (-1.6)}) \\ &= (-5.7) \times (\underline{2.9 - 2.3} + (-4.9)) \\ &= (-5.7) \times (\underline{0.6 + (-4.9)}) \\ &= \underline{(-5.7) \times (-4.3)} \\ &= 24.51 \end{aligned}$$

$$\begin{aligned} & 2.2 \times (\underline{(-2.7) + 7.9} - 8.7)^2 \div 1.4 \\ &= 2.2 \times (\underline{5.2 - 8.7})^2 \div 1.4 \\ &= 2.2 \times \underline{(-3.5)^2} \div 1.4 \\ &= \underline{2.2 \times 12.25} \div 1.4 \\ &= \underline{26.95 \div 1.4} \\ &= 19.25 \end{aligned}$$

$$\begin{aligned} & ((-8.8) \div 8.8 - \underline{(-6.6)^2}) \times (5.3 + (-4.8)) \\ &= (\underline{(-8.8) \div 8.8} - 43.56) \times (5.3 + (-4.8)) \\ &= (\underline{(-1) - 43.56}) \times (5.3 + (-4.8)) \\ &= (-44.56) \times (\underline{5.3 + (-4.8)}) \\ &= \underline{(-44.56) \times 0.5} \\ &= -22.28 \end{aligned}$$

$$\begin{aligned} & (\underline{0.4 \times (-1.5)}) \div (-0.5) + 7.8 - (6.2)^2 \\ &= (-0.6) \div (-0.5) + 7.8 - \underline{(6.2)^2} \\ &= \underline{(-0.6) \div (-0.5)} + 7.8 - 38.44 \\ &= \underline{1.2 + 7.8} - 38.44 \\ &= \underline{9 - 38.44} \\ &= -29.44 \end{aligned}$$

$$\begin{aligned} & (\underline{(-5.1) \div (-0.6)}) \times 1.5 - 1.4 + (-0.7)^2 \\ &= 8.5 \times 1.5 - 1.4 + \underline{(-0.7)^2} \\ &= \underline{8.5 \times 1.5} - 1.4 + 0.49 \\ &= \underline{12.75 - 1.4} + 0.49 \\ &= \underline{11.35 + 0.49} \\ &= 11.84 \end{aligned}$$

$$\begin{aligned} & (6.2 \times 8.7 + 6.6 - \underline{(1.3)^2}) \div (-2.5) \\ &= (\underline{6.2 \times 8.7} + 6.6 - 1.69) \div (-2.5) \\ &= (\underline{53.94 + 6.6} - 1.69) \div (-2.5) \\ &= (\underline{60.54 - 1.69}) \div (-2.5) \\ &= \underline{58.85 \div (-2.5)} \\ &= -23.54 \end{aligned}$$