

# Order of Operations with Decimals (F)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

$$2.8 \times ((3.5)^2 - 2.7 + 5.4)$$

$$(-0.8)^2 - 4.1 \times ((-0.6) \div 0.1)$$

$$(-5.5)^2 + (-4.3) \times ((-7.1) - (-3.9))$$

$$((-7.5)^2 - (-9.9)) \times (-0.8) + 5.1$$

$$(2.5)^2 \times ((-3.3) + 3.3 - (-9.8))$$

$$(3.9)^2 - (-3.9) \times ((-0.7) + 2.5)$$

$$((-3.8) - 4.4) \times (-0.5)^2 + (-6.8)$$

$$9.6 \times (((-6.7) + 6.9) \div (-0.2))^2$$

# Order of Operations with Decimals (F) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 2.8 \times ((3.5)^2 - 2.7 + 5.4) \\ &= 2.8 \times (12.25 - 2.7 + 5.4) \\ &= 2.8 \times (9.55 + 5.4) \\ &= \underline{2.8 \times 14.95} \\ &= 41.86 \end{aligned}$$

$$\begin{aligned} & (-0.8)^2 - 4.1 \times ((-0.6) \div 0.1) \\ &= \underline{(-0.8)^2} - 4.1 \times (-6) \\ &= 0.64 - \underline{4.1 \times (-6)} \\ &= \underline{0.64 - (-24.6)} \\ &= 25.24 \end{aligned}$$

$$\begin{aligned} & (-5.5)^2 + (-4.3) \times ((-7.1) - (-3.9)) \\ &= \underline{(-5.5)^2} + (-4.3) \times (-3.2) \\ &= 30.25 + \underline{(-4.3) \times (-3.2)} \\ &= \underline{30.25 + 13.76} \\ &= 44.01 \end{aligned}$$

$$\begin{aligned} & ((-7.5)^2 - (-9.9)) \times (-0.8) + 5.1 \\ &= \underline{(56.25 - (-9.9))} \times (-0.8) + 5.1 \\ &= \underline{66.15 \times (-0.8)} + 5.1 \\ &= \underline{(-52.92) + 5.1} \\ &= -47.82 \end{aligned}$$

$$\begin{aligned} & (2.5)^2 \times ((-3.3) + 3.3 - (-9.8)) \\ &= (2.5)^2 \times \underline{(0 - (-9.8))} \\ &= \underline{(2.5)^2} \times 9.8 \\ &= \underline{6.25 \times 9.8} \\ &= 61.25 \end{aligned}$$

$$\begin{aligned} & (3.9)^2 - (-3.9) \times ((-0.7) + 2.5) \\ &= \underline{(3.9)^2} - (-3.9) \times 1.8 \\ &= 15.21 - \underline{(-3.9) \times 1.8} \\ &= \underline{15.21 - (-7.02)} \\ &= 22.23 \end{aligned}$$

$$\begin{aligned} & ((-3.8) - 4.4) \times (-0.5)^2 + (-6.8) \\ &= (-8.2) \times \underline{(-0.5)^2} + (-6.8) \\ &= \underline{(-8.2) \times 0.25} + (-6.8) \\ &= \underline{(-2.05) + (-6.8)} \\ &= -8.85 \end{aligned}$$

$$\begin{aligned} & 9.6 \times (((-6.7) + 6.9) \div (-0.2))^2 \\ &= 9.6 \times \underline{(0.2 \div (-0.2))^2} \\ &= 9.6 \times \underline{(-1)^2} \\ &= \underline{9.6 \times 1} \\ &= 9.6 \end{aligned}$$