

## Order of Operations with Decimals (A)

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

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

Simplify each expression using the correct order of operations.

$$((-6.6) + (-9.2) - (-6.4)^2) \div 2.2$$

$$(-1.8)^2 + 2.5 \times ((-4.5) - (-7.7))$$

$$((-7.2)^2 - 6.4) \times (1.8 + (-0.8))$$

$$(9.5 - (-0.1)) \times (2.5)^2 + (-3.7)$$

$$((-4.1) + (-8.6) - (0.5)^2) \times 7.2$$

$$(7.5 + 3.2) \times (1.2 - 2.2)^2$$

$$(3.1 + (-7.3) - (0.5)^2) \times (-2.6)$$

$$(2.2 + (-0.6)^2 - 1.4) \times (-2.5)$$

# Order of Operations with Decimals (A) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & ((-6.6) + (-9.2) - \underline{(-6.4)^2}) \div 2.2 \\ & = (\underline{(-6.6) + (-9.2)} - 40.96) \div 2.2 \\ & = (\underline{(-15.8)} - 40.96) \div 2.2 \\ & = \underline{(-56.76)} \div 2.2 \\ & = -25.8 \end{aligned}$$

$$\begin{aligned} & (-1.8)^2 + 2.5 \times (\underline{(-4.5) - (-7.7)}) \\ & = \underline{(-1.8)^2} + 2.5 \times 3.2 \\ & = 3.24 + \underline{2.5 \times 3.2} \\ & = \underline{3.24 + 8} \\ & = 11.24 \end{aligned}$$

$$\begin{aligned} & (\underline{(-7.2)^2} - 6.4) \times (1.8 + (-0.8)) \\ & = (\underline{51.84} - 6.4) \times (1.8 + (-0.8)) \\ & = 45.44 \times (\underline{1.8 + (-0.8)}) \\ & = \underline{45.44 \times 1} \\ & = 45.44 \end{aligned}$$

$$\begin{aligned} & (\underline{9.5 - (-0.1)}) \times (2.5)^2 + (-3.7) \\ & = 9.6 \times \underline{(2.5)^2} + (-3.7) \\ & = \underline{9.6 \times 6.25} + (-3.7) \\ & = \underline{60} + (-3.7) \\ & = 56.3 \end{aligned}$$

$$\begin{aligned} & ((-4.1) + (-8.6) - \underline{(0.5)^2}) \times 7.2 \\ & = (\underline{(-4.1) + (-8.6)} - 0.25) \times 7.2 \\ & = (\underline{(-12.7)} - 0.25) \times 7.2 \\ & = \underline{(-12.95)} \times 7.2 \\ & = -93.24 \end{aligned}$$

$$\begin{aligned} & (\underline{7.5 + 3.2}) \times (1.2 - 2.2)^2 \\ & = 10.7 \times (\underline{1.2 - 2.2})^2 \\ & = 10.7 \times \underline{(-1)^2} \\ & = \underline{10.7 \times 1} \\ & = 10.7 \end{aligned}$$

$$\begin{aligned} & (3.1 + (-7.3) - \underline{(0.5)^2}) \times (-2.6) \\ & = (\underline{3.1 + (-7.3)} - 0.25) \times (-2.6) \\ & = (\underline{(-4.2)} - 0.25) \times (-2.6) \\ & = \underline{(-4.45)} \times (-2.6) \\ & = 11.57 \end{aligned}$$

$$\begin{aligned} & (2.2 + \underline{(-0.6)^2} - 1.4) \times (-2.5) \\ & = (\underline{2.2 + 0.36} - 1.4) \times (-2.5) \\ & = (\underline{2.56} - 1.4) \times (-2.5) \\ & = \underline{1.16 \times (-2.5)} \\ & = -2.9 \end{aligned}$$

## Order of Operations with Decimals (B)

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

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

Simplify each expression using the correct order of operations.

$$5.2 \times ((0.5)^2 + 9.7 - 2.7)$$

$$((-2.4)^2 \div (-1.6) + 8.8) \times (-1.9)$$

$$((-3.7)^2 - 8.8) \times ((-6.8) + (-1.2))$$

$$(-7.3) + (9.4)^2 \div (4.7 \times 1.6)$$

$$((-0.5) + (-1.7) - (-9.9))^2 \div (-1.4)$$

$$(6.1 + (-1.1)) \times ((-6.8) - (-2.7))^2$$

$$2.8 \times ((2.5)^2 + 9.6 \div (-6.4))$$

$$0.4 - (-1.7) \times ((-3.6) + 1.6)^3$$

# Order of Operations with Decimals (B) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 5.2 \times ((0.5)^2 + 9.7 - 2.7) \\ &= 5.2 \times (0.25 + 9.7 - 2.7) \\ &= 5.2 \times (9.95 - 2.7) \\ &= \underline{5.2 \times 7.25} \\ &= 37.7 \end{aligned}$$

$$\begin{aligned} & ((-2.4)^2 \div (-1.6) + 8.8) \times (-1.9) \\ &= (\underline{5.76 \div (-1.6)} + 8.8) \times (-1.9) \\ &= (\underline{(-3.6)} + 8.8) \times (-1.9) \\ &= \underline{5.2 \times (-1.9)} \\ &= -9.88 \end{aligned}$$

$$\begin{aligned} & ((-3.7)^2 - 8.8) \times ((-6.8) + (-1.2)) \\ &= (\underline{13.69 - 8.8}) \times ((-6.8) + (-1.2)) \\ &= 4.89 \times (\underline{(-6.8) + (-1.2)}) \\ &= \underline{4.89 \times (-8)} \\ &= -39.12 \end{aligned}$$

$$\begin{aligned} & (-7.3) + (9.4)^2 \div (4.7 \times 1.6) \\ &= (-7.3) + \underline{(9.4)^2 \div 7.52} \\ &= (-7.3) + \underline{88.36 \div 7.52} \\ &= \underline{(-7.3) + 11.75} \\ &= 4.45 \end{aligned}$$

$$\begin{aligned} & ((-0.5) + (-1.7) - (-9.9))^2 \div (-1.4) \\ &= (\underline{(-2.2) - (-9.9)})^2 \div (-1.4) \\ &= \underline{(7.7)^2} \div (-1.4) \\ &= \underline{59.29 \div (-1.4)} \\ &= -42.35 \end{aligned}$$

$$\begin{aligned} & (6.1 + (-1.1)) \times ((-6.8) - (-2.7))^2 \\ &= 5 \times (\underline{(-6.8) - (-2.7)})^2 \\ &= 5 \times \underline{(-4.1)^2} \\ &= \underline{5 \times 16.81} \\ &= 84.05 \end{aligned}$$

$$\begin{aligned} & 2.8 \times ((2.5)^2 + 9.6 \div (-6.4)) \\ &= 2.8 \times (6.25 + \underline{9.6 \div (-6.4)}) \\ &= 2.8 \times (\underline{6.25 + (-1.5)}) \\ &= \underline{2.8 \times 4.75} \\ &= 13.3 \end{aligned}$$

$$\begin{aligned} & 0.4 - (-1.7) \times ((-3.6) + 1.6)^3 \\ &= 0.4 - (-1.7) \times \underline{(-2)^3} \\ &= 0.4 - \underline{(-1.7) \times (-8)} \\ &= \underline{0.4 - 13.6} \\ &= -13.2 \end{aligned}$$

## Order of Operations with Decimals (C)

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

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

Simplify each expression using the correct order of operations.

$$(6.9 - (-8.1)) \times ((-6.9) + 5.6)^2$$

$$(7.9 - (-8.9) + (-2.2)) \times (-1.5)^2$$

$$(-2.2) - (9.2)^2 \div ((-6.4) \times 2.5)$$

$$((-6.4) - (-8.2)) \times (-5.1) + (0.3)^2$$

$$((2.5)^2 - 9.8) \times (6.9 + 1.5)$$

$$9.6 \times ((-9.6) - (-1.8) + 7.3)^2$$

$$(-8.3)^2 - 4.4 \times ((-1.7) + 0.2)$$

$$(-2.9)^2 + 6.8 \times ((-8.6) - 2.1)$$

# Order of Operations with Decimals (C) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \underline{(6.9 - (-8.1))} \times ((-6.9) + 5.6)^2 \\ &= 15 \times \underline{((-6.9) + 5.6)}^2 \\ &= 15 \times \underline{(-1.3)}^2 \\ &= \underline{15 \times 1.69} \\ &= 25.35 \end{aligned}$$

$$\begin{aligned} & \underline{(7.9 - (-8.9))} + (-2.2) \times (-1.5)^2 \\ &= \underline{(16.8 + (-2.2))} \times (-1.5)^2 \\ &= 14.6 \times \underline{(-1.5)}^2 \\ &= \underline{14.6 \times 2.25} \\ &= 32.85 \end{aligned}$$

$$\begin{aligned} & (-2.2) - (9.2)^2 \div \underline{((-6.4) \times 2.5)} \\ &= (-2.2) - \underline{(9.2)}^2 \div (-16) \\ &= (-2.2) - \underline{84.64 \div (-16)} \\ &= \underline{(-2.2) - (-5.29)} \\ &= 3.09 \end{aligned}$$

$$\begin{aligned} & \underline{((-6.4) - (-8.2))} \times (-5.1) + (0.3)^2 \\ &= 1.8 \times (-5.1) + \underline{(0.3)}^2 \\ &= \underline{1.8 \times (-5.1)} + 0.09 \\ &= \underline{(-9.18) + 0.09} \\ &= -9.09 \end{aligned}$$

$$\begin{aligned} & \underline{(2.5)}^2 - 9.8 \times (6.9 + 1.5) \\ &= \underline{(6.25 - 9.8)} \times (6.9 + 1.5) \\ &= (-3.55) \times \underline{(6.9 + 1.5)} \\ &= \underline{(-3.55) \times 8.4} \\ &= -29.82 \end{aligned}$$

$$\begin{aligned} & 9.6 \times \underline{((-9.6) - (-1.8))} + 7.3^2 \\ &= 9.6 \times \underline{((-7.8) + 7.3)}^2 \\ &= 9.6 \times \underline{(-0.5)}^2 \\ &= \underline{9.6 \times 0.25} \\ &= 2.4 \end{aligned}$$

$$\begin{aligned} & (-8.3)^2 - 4.4 \times \underline{((-1.7) + 0.2)} \\ &= \underline{(-8.3)}^2 - 4.4 \times (-1.5) \\ &= 68.89 - \underline{4.4 \times (-1.5)} \\ &= \underline{68.89 - (-6.6)} \\ &= 75.49 \end{aligned}$$

$$\begin{aligned} & (-2.9)^2 + 6.8 \times \underline{((-8.6) - 2.1)} \\ &= \underline{(-2.9)}^2 + 6.8 \times (-10.7) \\ &= 8.41 + \underline{6.8 \times (-10.7)} \\ &= \underline{8.41 + (-72.76)} \\ &= -64.35 \end{aligned}$$

# Order of Operations with Decimals (D)

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

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

Simplify each expression using the correct order of operations.

$$(-9.6) \times ((-0.5) - 1.6 + 4.1)^3$$

$$(-1.5) \times ((-2.8)^2 - 9.2 + 3.6)$$

$$(2.7 + 2.5)^2 \div 0.8 - (-9.9)$$

$$((4.2)^2 - (-8.4) \div (-3.5)) \times 4.5$$

$$(-9.6) \div ((-2.6) - (-3.3) + (-2.7))^2$$

$$(5.2 - 5.8)^2 \div (6.8 + (-3.8))$$

$$(7.4)^2 + 2.3 \div ((-3.4) - (-5.7))$$

$$(3.5)^2 - 7.2 \times ((-0.4) + (-1.9))$$

# Order of Operations with Decimals (D) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & (-9.6) \times \left( \underline{(-0.5) - 1.6} + 4.1 \right)^3 \\ &= (-9.6) \times \left( \underline{(-2.1) + 4.1} \right)^3 \\ &= (-9.6) \times \underline{2^3} \\ &= \underline{(-9.6) \times 8} \\ &= \underline{-76.8} \end{aligned}$$

$$\begin{aligned} & (-1.5) \times \left( \underline{(-2.8)^2} - 9.2 + 3.6 \right) \\ &= (-1.5) \times \left( \underline{7.84 - 9.2} + 3.6 \right) \\ &= (-1.5) \times \left( \underline{(-1.36) + 3.6} \right) \\ &= \underline{(-1.5) \times 2.24} \\ &= \underline{-3.36} \end{aligned}$$

$$\begin{aligned} & \left( \underline{2.7 + 2.5} \right)^2 \div 0.8 - (-9.9) \\ &= \underline{(5.2)^2} \div 0.8 - (-9.9) \\ &= \underline{27.04 \div 0.8} - (-9.9) \\ &= \underline{33.8 - (-9.9)} \\ &= \underline{43.7} \end{aligned}$$

$$\begin{aligned} & \left( \underline{(4.2)^2} - (-8.4) \div (-3.5) \right) \times 4.5 \\ &= \left( 17.64 - \underline{(-8.4) \div (-3.5)} \right) \times 4.5 \\ &= \left( \underline{17.64 - 2.4} \right) \times 4.5 \\ &= \underline{15.24 \times 4.5} \\ &= \underline{68.58} \end{aligned}$$

$$\begin{aligned} & (-9.6) \div \left( \underline{(-2.6) - (-3.3)} + (-2.7) \right)^2 \\ &= (-9.6) \div \left( \underline{0.7 + (-2.7)} \right)^2 \\ &= (-9.6) \div \underline{(-2)^2} \\ &= \underline{(-9.6) \div 4} \\ &= \underline{-2.4} \end{aligned}$$

$$\begin{aligned} & \left( \underline{5.2 - 5.8} \right)^2 \div (6.8 + (-3.8)) \\ &= (-0.6)^2 \div \left( \underline{6.8 + (-3.8)} \right) \\ &= \underline{(-0.6)^2} \div 3 \\ &= \underline{0.36 \div 3} \\ &= \underline{0.12} \end{aligned}$$

$$\begin{aligned} & (7.4)^2 + 2.3 \div \left( \underline{(-3.4) - (-5.7)} \right) \\ &= \underline{(7.4)^2} + 2.3 \div 2.3 \\ &= 54.76 + \underline{2.3 \div 2.3} \\ &= \underline{54.76 + 1} \\ &= \underline{55.76} \end{aligned}$$

$$\begin{aligned} & (3.5)^2 - 7.2 \times \left( \underline{(-0.4) + (-1.9)} \right) \\ &= \underline{(3.5)^2} - 7.2 \times (-2.3) \\ &= 12.25 - \underline{7.2 \times (-2.3)} \\ &= \underline{12.25 - (-16.56)} \\ &= \underline{28.81} \end{aligned}$$



## Order of Operations with Decimals (E)

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

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

Simplify each expression using the correct order of operations.

$$((-4.5)^2 + (-7.8) - 8.4) \times (-5.2)$$

$$((-0.1) + (-8.3)) \div (-2.5) - (1.4)^2$$

$$(2.5)^2 \times ((-4.6) - 7.6 + (-0.8))$$

$$((-3.8) - (-8.3) + (-3.5)) \times (-4.6)^2$$

$$(6.4 + (-3.9) - 2.5)^2 \times (-2.8)$$

$$(4.3)^2 + (-4.8) \times (4.4 - 5.2)$$

$$(-8.2) \times ((-3.4) - (-1.9) + 2.5)^2$$

$$(0.5 \times 9.4)^2 \div 4.7 - 5.4$$

# Order of Operations with Decimals (E) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left( \underline{(-4.5)^2} + (-7.8) - 8.4 \right) \times (-5.2) \\ & = \left( \underline{20.25} + \underline{(-7.8)} - 8.4 \right) \times (-5.2) \\ & = \left( \underline{12.45} - 8.4 \right) \times (-5.2) \\ & = \underline{4.05} \times \underline{(-5.2)} \\ & = \underline{-21.06} \end{aligned}$$

$$\begin{aligned} & \left( \underline{(-0.1) + (-8.3)} \right) \div (-2.5) - (1.4)^2 \\ & = (-8.4) \div (-2.5) - \underline{(1.4)^2} \\ & = \underline{(-8.4) \div (-2.5)} - 1.96 \\ & = \underline{3.36} - 1.96 \\ & = \underline{1.4} \end{aligned}$$

$$\begin{aligned} & (2.5)^2 \times \left( \underline{(-4.6) - 7.6} + (-0.8) \right) \\ & = (2.5)^2 \times \left( \underline{(-12.2) + (-0.8)} \right) \\ & = \underline{(2.5)^2} \times (-13) \\ & = \underline{6.25} \times \underline{(-13)} \\ & = \underline{-81.25} \end{aligned}$$

$$\begin{aligned} & \left( \underline{(-3.8) - (-8.3)} + (-3.5) \right) \times (-4.6)^2 \\ & = \left( \underline{4.5} + \underline{(-3.5)} \right) \times (-4.6)^2 \\ & = 1 \times \underline{(-4.6)^2} \\ & = \underline{1} \times \underline{21.16} \\ & = \underline{21.16} \end{aligned}$$

$$\begin{aligned} & \left( \underline{6.4 + (-3.9)} - 2.5 \right)^2 \times (-2.8) \\ & = \left( \underline{2.5} - 2.5 \right)^2 \times (-2.8) \\ & = \underline{0^2} \times (-2.8) \\ & = \underline{0} \times \underline{(-2.8)} \\ & = \underline{0} \end{aligned}$$

$$\begin{aligned} & (4.3)^2 + (-4.8) \times \underline{(4.4 - 5.2)} \\ & = \underline{(4.3)^2} + (-4.8) \times (-0.8) \\ & = 18.49 + \underline{(-4.8) \times (-0.8)} \\ & = \underline{18.49 + 3.84} \\ & = \underline{22.33} \end{aligned}$$

$$\begin{aligned} & (-8.2) \times \left( \underline{(-3.4) - (-1.9)} + 2.5 \right)^2 \\ & = (-8.2) \times \left( \underline{(-1.5) + 2.5} \right)^2 \\ & = (-8.2) \times \underline{1^2} \\ & = \underline{(-8.2) \times 1} \\ & = \underline{-8.2} \end{aligned}$$

$$\begin{aligned} & \left( \underline{0.5 \times 9.4} \right)^2 \div 4.7 - 5.4 \\ & = \underline{(4.7)^2} \div 4.7 - 5.4 \\ & = \underline{22.09} \div 4.7 - 5.4 \\ & = \underline{4.7 - 5.4} \\ & = \underline{-0.7} \end{aligned}$$

# 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.

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

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

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

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

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

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

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

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

# Order of Operations with Decimals (G)

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

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

Simplify each expression using the correct order of operations.

$$3.4 \times (8.5 + (-4.2) - 2.3)^2$$

$$2.4 - (-8.4)^2 \div ((-5.4) + (-3.6))$$

$$(4.9)^2 + 5.1 \times (9.2 - 0.5)$$

$$(-7.2) \div ((-7.4) - 3.1 + 9.7)^2$$

$$((-2.2)^2 - 1.6 \times (-6.5)) \div (-1.2)$$

$$(-7.5) \times ((-6.5) + (-0.2)^2 - 5.8)$$

$$(3.6 - (-5.9) + (-8.5)) \times (-1.6)^2$$

$$(-7.5) - 1.3 \div (0.9 + (-1.1))^2$$

# Order of Operations with Decimals (G) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 3.4 \times (8.5 + (-4.2) - 2.3)^2 \\ &= 3.4 \times (4.3 - 2.3)^2 \\ &= 3.4 \times 2^2 \\ &= 3.4 \times 4 \\ &= 13.6 \end{aligned}$$

$$\begin{aligned} & 2.4 - (-8.4)^2 \div ((-5.4) + (-3.6)) \\ &= 2.4 - (-8.4)^2 \div (-9) \\ &= 2.4 - 70.56 \div (-9) \\ &= 2.4 - (-7.84) \\ &= 10.24 \end{aligned}$$

$$\begin{aligned} & (4.9)^2 + 5.1 \times (9.2 - 0.5) \\ &= (4.9)^2 + 5.1 \times 8.7 \\ &= 24.01 + 5.1 \times 8.7 \\ &= 24.01 + 44.37 \\ &= 68.38 \end{aligned}$$

$$\begin{aligned} & (-7.2) \div ((-7.4) - 3.1 + 9.7)^2 \\ &= (-7.2) \div ((-10.5) + 9.7)^2 \\ &= (-7.2) \div (-0.8)^2 \\ &= (-7.2) \div 0.64 \\ &= -11.25 \end{aligned}$$

$$\begin{aligned} & ((-2.2)^2 - 1.6 \times (-6.5)) \div (-1.2) \\ &= (4.84 - 1.6 \times (-6.5)) \div (-1.2) \\ &= (4.84 - (-10.4)) \div (-1.2) \\ &= 15.24 \div (-1.2) \\ &= -12.7 \end{aligned}$$

$$\begin{aligned} & (-7.5) \times ((-6.5) + (-0.2)^2 - 5.8) \\ &= (-7.5) \times ((-6.5) + 0.04 - 5.8) \\ &= (-7.5) \times ((-6.46) - 5.8) \\ &= (-7.5) \times (-12.26) \\ &= 91.95 \end{aligned}$$

$$\begin{aligned} & (3.6 - (-5.9) + (-8.5)) \times (-1.6)^2 \\ &= (9.5 + (-8.5)) \times (-1.6)^2 \\ &= 1 \times (-1.6)^2 \\ &= 1 \times 2.56 \\ &= 2.56 \end{aligned}$$

$$\begin{aligned} & (-7.5) - 1.3 \div (0.9 + (-1.1))^2 \\ &= (-7.5) - 1.3 \div (-0.2)^2 \\ &= (-7.5) - 1.3 \div 0.04 \\ &= (-7.5) - 32.5 \\ &= -40 \end{aligned}$$

# Order of Operations with Decimals (H)

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

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

Simplify each expression using the correct order of operations.

$$((-1.6)^2 - 1.8) \div (-0.4) \times (-8.5)$$

$$(-6.9)^2 + 7.5 \times (2.9 - (-3.2))$$

$$(8.6 - (-2.6)) \times (-4.7) + (-3.3)^2$$

$$(9.6 - 6.9) \times (-1.7) + (6.2)^2$$

$$(-3.7) \times ((-7.3) + (-1.6) - (-6.9))^2$$

$$((-5.5) + (-3.7) - 7.8) \times (-0.3)^2$$

$$(-1.5) \times ((-9.6) + (-3.1) - (1.8)^2)$$

$$0.4 \times ((1.4 + (-1.4)) \div (-9.4))^3$$

# Order of Operations with Decimals (H) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \left( \underline{(-1.6)^2} - 1.8 \right) \div (-0.4) \times (-8.5) \\ & = \underline{(2.56 - 1.8)} \div (-0.4) \times (-8.5) \\ & = \underline{0.76 \div (-0.4)} \times (-8.5) \\ & = \underline{(-1.9) \times (-8.5)} \\ & = 16.15 \end{aligned}$$

$$\begin{aligned} & (-6.9)^2 + 7.5 \times \left( \underline{2.9 - (-3.2)} \right) \\ & = \underline{(-6.9)^2} + 7.5 \times 6.1 \\ & = 47.61 + \underline{7.5 \times 6.1} \\ & = \underline{47.61 + 45.75} \\ & = 93.36 \end{aligned}$$

$$\begin{aligned} & \left( \underline{8.6 - (-2.6)} \right) \times (-4.7) + (-3.3)^2 \\ & = 11.2 \times (-4.7) + \underline{(-3.3)^2} \\ & = \underline{11.2 \times (-4.7)} + 10.89 \\ & = \underline{(-52.64) + 10.89} \\ & = -41.75 \end{aligned}$$

$$\begin{aligned} & \left( \underline{9.6 - 6.9} \right) \times (-1.7) + (6.2)^2 \\ & = 2.7 \times (-1.7) + \underline{(6.2)^2} \\ & = \underline{2.7 \times (-1.7)} + 38.44 \\ & = \underline{(-4.59) + 38.44} \\ & = 33.85 \end{aligned}$$

$$\begin{aligned} & (-3.7) \times \left( \underline{(-7.3) + (-1.6)} - (-6.9) \right)^2 \\ & = (-3.7) \times \left( \underline{(-8.9) - (-6.9)} \right)^2 \\ & = (-3.7) \times \underline{(-2)^2} \\ & = \underline{(-3.7) \times 4} \\ & = -14.8 \end{aligned}$$

$$\begin{aligned} & \left( \underline{(-5.5) + (-3.7)} - 7.8 \right) \times (-0.3)^2 \\ & = \left( \underline{(-9.2) - 7.8} \right) \times (-0.3)^2 \\ & = (-17) \times \underline{(-0.3)^2} \\ & = \underline{(-17) \times 0.09} \\ & = -1.53 \end{aligned}$$

$$\begin{aligned} & (-1.5) \times \left( (-9.6) + (-3.1) - \underline{(1.8)^2} \right) \\ & = (-1.5) \times \left( \underline{(-9.6) + (-3.1)} - 3.24 \right) \\ & = (-1.5) \times \left( \underline{(-12.7) - 3.24} \right) \\ & = \underline{(-1.5) \times (-15.94)} \\ & = 23.91 \end{aligned}$$

$$\begin{aligned} & 0.4 \times \left( \left( \underline{1.4 + (-1.4)} \right) \div (-9.4) \right)^3 \\ & = 0.4 \times \left( \underline{0 \div (-9.4)} \right)^3 \\ & = 0.4 \times \underline{0^3} \\ & = \underline{0.4 \times 0} \\ & = 0 \end{aligned}$$



# Order of Operations with Decimals (I)

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

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

Simplify each expression using the correct order of operations.

$$3.5 \times ((-7.4) - 4.5 + (-4.4)^2)$$

$$0.5 \times ((-8.1) - 4.4 + (0.4)^2)$$

$$6.6 + 3.7 \div (3.3 - 4.3)^3$$

$$(5.4)^2 - 7.8 \times (2.8 + (-8.6))$$

$$((-5.2) - (-4.9)) \div 2.5 + (-9.5)^2$$

$$(-2.4) \times (8.1 + (-8.9) - 5.2)^2$$

$$(3.8 - (-3.9))^2 \div (4.7 + (-5.8))$$

$$((-2.5) + 2.9) \times (3.5 - 4.5)^3$$

# Order of Operations with Decimals (I) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & 3.5 \times ((-7.4) - 4.5 + (-4.4)^2) \\ &= 3.5 \times ((-7.4) - 4.5 + 19.36) \\ &= 3.5 \times ((-11.9) + 19.36) \\ &= \underline{3.5 \times 7.46} \\ &= 26.11 \end{aligned}$$

$$\begin{aligned} & 0.5 \times ((-8.1) - 4.4 + (0.4)^2) \\ &= 0.5 \times ((-8.1) - 4.4 + 0.16) \\ &= 0.5 \times ((-12.5) + 0.16) \\ &= \underline{0.5 \times (-12.34)} \\ &= -6.17 \end{aligned}$$

$$\begin{aligned} & 6.6 + 3.7 \div (3.3 - 4.3)^3 \\ &= 6.6 + 3.7 \div (-1)^3 \\ &= 6.6 + \underline{3.7 \div (-1)} \\ &= \underline{6.6 + (-3.7)} \\ &= 2.9 \end{aligned}$$

$$\begin{aligned} & (5.4)^2 - 7.8 \times (2.8 + (-8.6)) \\ &= \underline{(5.4)^2} - 7.8 \times (-5.8) \\ &= 29.16 - \underline{7.8 \times (-5.8)} \\ &= \underline{29.16 - (-45.24)} \\ &= 74.4 \end{aligned}$$

$$\begin{aligned} & ((-5.2) - (-4.9)) \div 2.5 + (-9.5)^2 \\ &= (-0.3) \div 2.5 + \underline{(-9.5)^2} \\ &= \underline{(-0.3) \div 2.5} + 90.25 \\ &= \underline{(-0.12) + 90.25} \\ &= 90.13 \end{aligned}$$

$$\begin{aligned} & (-2.4) \times (8.1 + (-8.9) - 5.2)^2 \\ &= (-2.4) \times ((-0.8) - 5.2)^2 \\ &= (-2.4) \times \underline{(-6)^2} \\ &= \underline{(-2.4) \times 36} \\ &= -86.4 \end{aligned}$$

$$\begin{aligned} & (3.8 - (-3.9))^2 \div (4.7 + (-5.8)) \\ &= (7.7)^2 \div (4.7 + (-5.8)) \\ &= \underline{(7.7)^2} \div (-1.1) \\ &= \underline{59.29 \div (-1.1)} \\ &= -53.9 \end{aligned}$$

$$\begin{aligned} & ((-2.5) + 2.9) \times (3.5 - 4.5)^3 \\ &= 0.4 \times \underline{(3.5 - 4.5)^3} \\ &= 0.4 \times \underline{(-1)^3} \\ &= \underline{0.4 \times (-1)} \\ &= -0.4 \end{aligned}$$

# Order of Operations with Decimals (J)

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

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

Simplify each expression using the correct order of operations.

$$((-7.2) + (-3.9) - (-2.5)^2) \times (-5.2)$$

$$((-8.1) - (-9.1))^3 \times 0.2 + 5.1$$

$$(-3.5) \times (2.5 - (-6.1) + (2.6)^2)$$

$$7.4 \times (0.9 + 8.7 - (-2.5)^2)$$

$$(6.3 \times 0.4) \div (-0.2) - (2.1)^2$$

$$(1.5 - (-2.7)^2) \times (8.3 + (-5.3))$$

$$(8.3 + (-4.4)^2) \div (-0.5) - (-4.6)$$

$$((-0.8) + (-3.9) - (-1.1))^2 \times 2.5$$

# Order of Operations with Decimals (J) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & ((-7.2) + (-3.9) - \underline{(-2.5)^2}) \times (-5.2) \\ & = \underline{((-7.2) + (-3.9) - 6.25)} \times (-5.2) \\ & = \underline{((-11.1) - 6.25)} \times (-5.2) \\ & = \underline{(-17.35) \times (-5.2)} \\ & = 90.22 \end{aligned}$$

$$\begin{aligned} & (\underline{(-8.1) - (-9.1)})^3 \times 0.2 + 5.1 \\ & = \underline{1^3} \times 0.2 + 5.1 \\ & = \underline{1 \times 0.2} + 5.1 \\ & = \underline{0.2 + 5.1} \\ & = 5.3 \end{aligned}$$

$$\begin{aligned} & (-3.5) \times (2.5 - (-6.1) + \underline{(2.6)^2}) \\ & = (-3.5) \times (\underline{2.5 - (-6.1)} + 6.76) \\ & = (-3.5) \times (\underline{8.6 + 6.76}) \\ & = \underline{(-3.5) \times 15.36} \\ & = -53.76 \end{aligned}$$

$$\begin{aligned} & 7.4 \times (0.9 + 8.7 - \underline{(-2.5)^2}) \\ & = 7.4 \times (\underline{0.9 + 8.7} - 6.25) \\ & = 7.4 \times (\underline{9.6 - 6.25}) \\ & = \underline{7.4 \times 3.35} \\ & = 24.79 \end{aligned}$$

$$\begin{aligned} & (\underline{6.3 \times 0.4}) \div (-0.2) - (2.1)^2 \\ & = 2.52 \div (-0.2) - \underline{(2.1)^2} \\ & = \underline{2.52 \div (-0.2)} - 4.41 \\ & = \underline{(-12.6) - 4.41} \\ & = -17.01 \end{aligned}$$

$$\begin{aligned} & (1.5 - \underline{(-2.7)^2}) \times (8.3 + (-5.3)) \\ & = (\underline{1.5 - 7.29}) \times (8.3 + (-5.3)) \\ & = (-5.79) \times (\underline{8.3 + (-5.3)}) \\ & = \underline{(-5.79) \times 3} \\ & = -17.37 \end{aligned}$$

$$\begin{aligned} & (8.3 + \underline{(-4.4)^2}) \div (-0.5) - (-4.6) \\ & = (\underline{8.3 + 19.36}) \div (-0.5) - (-4.6) \\ & = \underline{27.66 \div (-0.5)} - (-4.6) \\ & = \underline{(-55.32) - (-4.6)} \\ & = -50.72 \end{aligned}$$

$$\begin{aligned} & (\underline{(-0.8) + (-3.9)} - (-1.1))^2 \times 2.5 \\ & = (\underline{(-4.7) - (-1.1)})^2 \times 2.5 \\ & = \underline{(-3.6)^2} \times 2.5 \\ & = \underline{12.96 \times 2.5} \\ & = 32.4 \end{aligned}$$