

## Order of Operations (B)

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

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

Simplify each expression using the correct order of operations.

$$((-8) \times 7) \div ((-2)^2 + 5 - 10)^3$$

$$(3 + (-3)) \times ((-4) - 6) \div ((-5)^2 + (-6))$$

$$((-10)^2 - 10^2) \div (5 + (-3)) \times 3$$

$$(8 + (-7) - 6) \div (4 \times (-9)) \div (-6)^2$$

$$((-8) \times (-5)) \div ((-2)^3 - (-3) + 7)^3$$

$$(-9) - (-5)^2 + (-7) \times (((-8) \div 8) \times 6)$$

# Order of Operations (B) Answers

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

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

Simplify each expression using the correct order of operations.

$$\begin{aligned} & \underline{((-8) \times 7)} \div ((-2)^2 + 5 - 10)^3 \\ & = (-56) \div \underline{((-2)^2 + 5 - 10)}^3 \\ & = (-56) \div \underline{(4 + 5 - 10)}^3 \\ & = (-56) \div \underline{(9 - 10)}^3 \\ & = (-56) \div \underline{(-1)}^3 \\ & = \underline{(-56) \div (-1)} \\ & = 56 \end{aligned}$$

$$\begin{aligned} & \underline{(3 + (-3))} \times ((-4) - 6) \div ((-5)^2 + (-6)) \\ & = 0 \times \underline{((-4) - 6)} \div ((-5)^2 + (-6)) \\ & = 0 \times (-10) \div \underline{((-5)^2 + (-6))} \\ & = 0 \times (-10) \div \underline{(25 + (-6))} \\ & = \underline{0 \times (-10)} \div 19 \\ & = \underline{0 \div 19} \\ & = 0 \end{aligned}$$

$$\begin{aligned} & \underline{((-10)^2 - 10^2)} \div (5 + (-3)) \times 3 \\ & = (100 - \underline{10^2}) \div (5 + (-3)) \times 3 \\ & = \underline{(100 - 100)} \div (5 + (-3)) \times 3 \\ & = 0 \div \underline{(5 + (-3))} \times 3 \\ & = \underline{0 \div 2} \times 3 \\ & = \underline{0 \times 3} \\ & = 0 \end{aligned}$$

$$\begin{aligned} & \underline{(8 + (-7) - 6)} \div ((4 \times (-9)) \div (-6)^2) \\ & = \underline{(1 - 6)} \div ((4 \times (-9)) \div (-6)^2) \\ & = (-5) \div \underline{((4 \times (-9)) \div (-6)^2)} \\ & = (-5) \div \underline{((-36) \div (-6)^2)} \\ & = (-5) \div \underline{((-36) \div 36)} \\ & = \underline{(-5) \div (-1)} \\ & = 5 \end{aligned}$$

$$\begin{aligned} & \underline{((-8) \times (-5))} \div ((-2)^3 - (-3) + 7)^3 \\ & = 40 \div \underline{((-2)^3 - (-3) + 7)}^3 \\ & = 40 \div \underline{((-8) - (-3) + 7)}^3 \\ & = 40 \div \underline{((-5) + 7)}^3 \\ & = 40 \div \underline{2^3} \\ & = \underline{40 \div 8} \\ & = 5 \end{aligned}$$

$$\begin{aligned} & (-9) - (-5)^2 + (-7) \times \underline{(((-8) \div 8) \times 6)} \\ & = (-9) - (-5)^2 + (-7) \times \underline{((-1) \times 6)} \\ & = (-9) - \underline{(-5)^2} + (-7) \times (-6) \\ & = (-9) - 25 + \underline{(-7) \times (-6)} \\ & = \underline{(-9) - 25} + 42 \\ & = \underline{(-34) + 42} \\ & = 8 \end{aligned}$$