



# Pump

Order of Operations (Day 1)

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

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

Apply the Order of Operations to simplify each expression.

## Practice

1.  $4 + 3(2)$

2.  $5 - \frac{8}{2}$

3.  $2 + 4 \cdot 8$

4.  $6 + \frac{10}{5}$

5.  $6 - 3(2)$

6.  $2 + 12 \div 3$

## CRITICAL THINKING

Jenna has \$20. She buys 6 granola bars that cost \$2.50 each. Write an expression that gives the amount she will receive in change, and give that amount.



# Pump

Order of Operations (Day 2)

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

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

Apply the Order of Operations to simplify each expression.

## Practice

1.  $2 + 3(4 + 2)$

2.  $8 - 3(4 - 2)$

3.  $4 \cdot (5 + 2 \cdot 3)$

4.  $2 \cdot (10 - 2 \cdot 2)$

5.  $6 \cdot (7 - 2 \cdot 3)$

6.  $6 + 5(2 + 3 \cdot 5)$

## CRITICAL THINKING

Mandy is treating her four young cousins to lunch at Delicious Delhi. Each kid gets the lunch special for \$5.95 and a mango lassi for \$3.25. For herself, Mandy order a lunch platter for \$6.95. Write an expression that gives the amount Mandy spends (without tax or tip) on the meal, and simplify the expression.



# Pump

Order of Operations (Day 3)

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

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

Apply the Order of Operations to simplify each expression.

## Practice

1.  $2 \cdot 5^2$

2.  $2 + 3(4^3)$

3.  $8 + 2(3 + 4)^2$

4.  $60 - 2(3 + 2)^2$

5.  $5 + 3(4 \cdot 2)^2$

6.  $6 + \frac{(3+5)^2}{8}$

## CRITICAL THINKING

Mr. Yukilous has hired some workers to install a patio. The patio will be a square, 8 feet on edge. The workers charge \$15 per square foot for the patio tiles, plus \$500 for the labor. Write an expression giving the total cost, then simplify it to find that cost.



# Pump

Order of Operations (Day 4)

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

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

Apply the Order of Operations to simplify each expression.

## Practice

1.  $\frac{2 \cdot 5^2}{6+4}$

2.  $5 + (7 - 3)(3^3)$

3.  $6 + \frac{8}{4}(3 + 5)^2$

4.  $60 - 2\left(\frac{12}{4} + 3\right)^2$

5.  $2 + 2(2 + 2 \cdot 2)^2$

6.  $2 + \frac{(3+5)^2}{9+7}$

## CRITICAL THINKING

Rewrite the expression  $a + b(c + d)^2$  to show all the “hidden” implicit symbols, coefficients, and exponents that we usually leave out. Then evaluate it for  $a = 2; b = 3; c = 4; d = 5$ .



# Pump

Order of Operations (Day 5)

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

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

Apply the Order of Operations to simplify each expression.

## Practice

1.  $40 + 2(3 - 4 \cdot (5 + 6))$

2.  $6 + 2\left(\frac{6+\frac{6}{2}}{5-2}\right)$

3.  $6 + 2(a + 4(3 + 2)); a = 12$

4.  $6 + (1 + (2 + 3)^2)^2$

5.  $78 - 3(6 + (2 + 3)^2)$

6.  $(4 + 1)^2 - 3\sqrt{20 - 4}$

## CRITICAL THINKING

The Distance Formula gives the distance  $d$  between two points,  $(x_1, y_1)$  and  $(x_2, y_2)$ . It is  $d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$ . Find the distance between  $(2, 4)$  and  $(8, 12)$ .