

Name \_\_\_\_\_

Date \_\_\_\_\_

Aim: How can we subtracting algebraic expressions?

## Do now

1) Subtract 10 from 6

2) Write a mathematical expression: 5 times a number subtracted from 16

3) Write a mathematical expression: A number increased by 5, subtracted from the product of 6 and the number

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4) What is  $(3x - 5)$  subtracted from  $(7x + 8)$ ?

**Steps for subtracting expressions:**

1.) \_\_\_\_\_

2.) \_\_\_\_\_

3.) \_\_\_\_\_

5) What is the difference of  $(-2x - 6)$  and  $(4x + 2)$ ?

6) What is the result when  $0.81x - 0.45$  is subtracted from  $3.28x + 1.4$ ?

7) What is  $(2x^2 - 6x + 9)$  subtracted from  $(4x^2 + 4)$  ?

### APPLICATIONS

8) Your class project involves recycling aluminum cans. So far, your class has collected  $(13x + 50)$  aluminum cans. The class goal is collect  $(80x + 120)$  aluminum cans. How many more cans does your class need to collect?

9) Eastside Bowling charges \$2.25 for shoes and \$3.00 per game,  $g$ . Westside Bowling charges \$1.75 for shoes and \$2.50 per game,  $g$ . Write an algebraic expression in simplest form that represents how much more Eastside Bowling charges than Westside Bowling.

10) A concession stand sells hamburgers. The revenue from the hamburgers is represented by the expression  $15x + 35$  dollars.

a) The price of a hamburger is \$5. Write an expression that represents the number of hamburgers sold.

b) The revenue from drinks is represented by the expression  $63x + 90$  dollars. The price of a drink is \$3. Write an expression that represents the number of drinks sold.

- c) Write and simplify an expression that represents how many more drinks were sold than hamburgers.



When subtracting expressions we must put \_\_\_\_\_ around the second parentheses, \_\_\_\_\_ the negative and then \_\_\_\_\_.