

# Lesson 5.2: Manipulating Expressions

## Targets

1. I can combine like terms with distribution.
2. I can manipulate linear expressions with rational coefficients.

## How to simplify an expression by combining like terms and the distributive property

First attempt this problem on your own. Then watch the video and copy his notes.

*Use the distributive property to simplify each expression:*

Your attempt:

a.  $2(3x + 5)$

Video Notes:

a.  $2(3x + 5)$

b.  $7(3y - 5) - 2(10 + 4y)$

b.  $7(3y - 5) - 2(10 + 4y)$

**Khan Activity: Combining Like Terms with Distribution and Negative Numbers**

Complete this activity on Khan.

## Examples of simplifying expressions involving rational numbers

First attempt this problem on your own. Then watch the video and copy his notes.

*Simplify the expression by combining like terms:*

Your attempt:

$$-5.55 - 8.55c + 4.35c$$

Video Notes:

$$-5.55 - 8.55c + 4.35c$$

### **Khan Activity: Combining Like Terms with Rational Coefficients**

Complete this activity on Khan.

### **Exit Ticket**

1. Have all your notes filled out above.
2. Complete the following Khan Academy Activities:
  - a. Combining Like Terms with Distribution and Negative Numbers
  - b. Combining Like Terms with Rational Coefficients