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Primary Type: Tutorial

**Direct Link:** <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-negative-numbers-add-and-subtract/cc-7th-add-sub-neg-fractions/v/adding-and-subtracting-three-fractions>

# Adding and Subtracting Fractions

This video demonstrates how to add and subtract negative fractions with unlike denominators.

## General Information

**Subject(s):** Mathematics

**Grade Level(s):** 7

**Intended Audience:** [Students](#)

**Instructional Time:** 3 Minute(s)

**Suggested Technology:** Computers for Students, Internet Connection, Speakers/Headphones

**Keywords:** fractions, negative fractions, integers

**Instructional Component Type(s):** [Tutorial](#), [Video/Audio/Animation](#),

**Resource Collection:** Secondary Math specific existing tutorials

## Source and Access Information

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**Name of Author/Source:** Kahn Academy

**District/Organization of Contributor(s):** Leon

**Access Privileges:** Public

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## Aligned Standards

Name	Description
	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram. <ol style="list-style-type: none"><li>Describe situations in which opposite quantities combine to make 0. For example, a hydrogen atom has 0 charge because its two constituents are oppositely charged.</li><li>Understand <math>p + q</math> as the number located a distance <math> q </math> from <math>p</math>, in the positive or negative direction depending on whether <math>q</math> is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.</li><li>Understand subtraction of rational numbers as adding the additive inverse, <math>p - q = p + (-q)</math>. Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.</li><li>Apply properties of operations as strategies to add and subtract rational numbers.</li></ol>

[MAFS.7.NS.1.1:](#)

**Clarifications:****Fluency Expectations or Examples of Culminating Standards**

Adding, subtracting, multiplying, and dividing rational numbers is the culmination of numerical work with the four basic operations. The number system will continue to develop in grade 8, expanding to become the real numbers by the introduction of irrational numbers, and will develop further in high school, expanding to become the complex numbers with the introduction of imaginary numbers. Because there are no specific standards for rational number arithmetic in later grades and because so much other work in grade 7 depends on rational number arithmetic, fluency with rational number arithmetic should be the goal in grade 7.