

## MAKEBELIEFSCOMIX LESSON PLANS

### SECTION 6: TEACHING MATH WITH COMICS

#### HELPING STUDENTS UNDERSTANDING FRACTIONS AND INTEGERS

Created by **Janice Dwosh**, gifted specialist, Boulder Creek Elementary/Paradise Valley Unified Schools in Phoenix, Arizona  
Grade level: 5th and 6th grades (gifted)

**Subject:** math

Common Core Standards: Fractions or Integers 5th-6th grade

(see below for other math topics that can be used)

iPad application utilized or website: Make Beliefs Comix iPad app or website ([www.makebeliefscomix.com](http://www.makebeliefscomix.com)), and Khan Academy [www.khanacademy.com](http://www.khanacademy.com)

**Materials required:** iPads or Chromebooks, fraction or integer lessons (math books)

**Procedures:** After lessons and review on fractions (equivalent, simplifying, adding and subtracting, or multiply or dividing), or an integer lesson (absolute value, add or subtract, multiply or divide), students will be asked to develop a short lesson to reteach to the class. Each student will be given a different topic related to fractions/or integers to review with the class. Before developing their lesson each student watches a similar lesson on Khan Academy first to prepare. Each group develops a four to eight squares on the storyboard as a draft before putting the lesson on the comic strip. Students are required to take notes as a study guide for the upcoming quiz. Any other clarifications or corrections are made by the teacher, as necessary, before the quiz.

**Evaluation/Assessment:** The teacher will print the comic strips to evaluate as well as share for the class on a bulletin board. The evaluation can be based on appropriately demonstrating step by step the procedures of the lesson, utilizing examples, etc. They will also have to share the lesson with the class.

**Adaptations:** Pairs could be used to support those students not able to complete the project on their own. Also pairing heterogeneously may help to support those students not understanding the lesson completely. Students can also develop word problems utilizing their strategy to help prepare for the quiz.

**Reflection/comments:** This lesson was extremely successful in my 5th and 6th grade Honors math classroom. The students learned about how to organize a lesson, how to develop and prepare to teach a lesson, and how to find appropriate examples for each lesson. It was a real eye opener! 6th graders have also used it successfully for a variety of math topics (integers, percents, exponents, the 8 mathematical practices).

This has worked in grades 4-6 for all math topics as a review for end of unit, and for checking for understanding. It can be differentiated by level, topic, method of presentations, and number of students in a group, etc. It has been a very successful tech project using iPads and Chromebooks and is recommended for flexible/ability grouping activities. I have utilized it for integers, percents, fractions, decimals, exponents, as well as the eight mathematical practices.

*The rubric on the following page can be used for evaluation (change as needed):*

**Technology math lesson integers (or other math topic)**

**Grading rubric**

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

Points available	Points earned
Written plan/script	4
tech lesson includes:	
text/words that make sense	6
pictures/characters that fit with lesson	3
organized and interesting	2

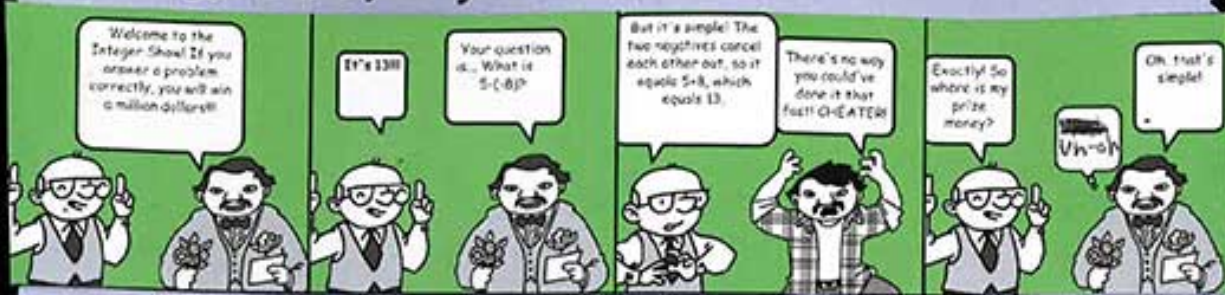


# Converting Unit Rates By

## Perplexing complex Fractions



## Subtracting integers - The Integer Show



## Mrs. Dwash



This comic strip was created at [MabelBelin.com](http://MabelBelin.com). Go there to make one yourself!!

## Absolute value



## Converting fractions to decimals



This comic strip was created on [MakeBeliefsComix.com](http://MakeBeliefsComix.com). Go there to make your own!

## Multiplying Negative Fractions



By:

# Dividing Fractions



## COMPLEX fractions

