# General Education Math Lesson Plan - Measurement: Finding the area of a triangle 

Source: Bennett, J.M., Burger, E. B., Chard, D. J., Hall, E., Kennedy, P. A...Waits, B. W. (2011). Mathematics. Austin, TX: Holt McDougal.

Standard: 5.NO.2b3 Multiply or divide fractions
5.NO.2c2 Solve word problem involving the addition, subtraction, multiplication, or division of fractions

Learning Outcome: Students will multiply fractions and mixed numbers.
Materials: word problems, pencil, writing utensil

## Activities:

- Focus and Review: Ask students if they have ever used a recipe to cook. Did the recipe include fractions? What if you needed to make a double batch or half a batch?
- Lecture: Teacher works through a variety of problems multiplying fractions with other fractions and with whole numbers.
- Guided Practice: Students work in pairs to complete 5 word problems from their math textbooks
- Independent Practice: Students work 5 word problems using real-world application. Students are expected to pull essential facts from the story to create the equation and solve for the product.

Activity: Create a universally designed version of the above lesson

| UDL Planning | My ideas |
| :--- | :--- |
| Representation - adaptations in materials <br> (e.g., adapt for sensory impairments) | Use a real recipe that students could <br> make; visual models of fractions; use a <br> graphing calculator or any other <br> calculator that would allow students to <br> enter fractions and mixed numbers |
| Expression - how will student show <br> learning (e.g., use of assistive <br> technology; alternative project) | Use a calculator or manipulative; use <br> actual measuring cups with students <br> pouring two times the measuring cup into <br> a larger measuring cup, and reading the <br> final measurement |
| Engagement - how will student <br> participate in the activity | Student can work in a pair during <br> independent practice; alter word <br> problems to make personally relevant <br> (e.g., add student's name, change the <br> context to be something familiar) |

