

Many everyday problems require knowledge of adding and subtracting mixed numbers, from shopping for shoes, to baking cookies, to investing in stocks, and so forth.

Three common conversions deal with purchasing the following:

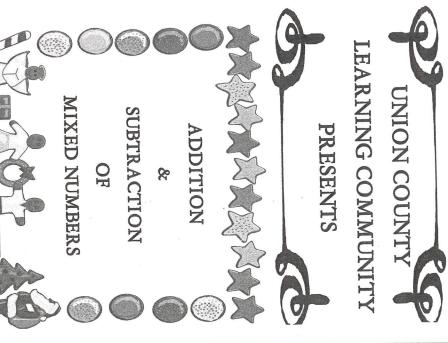
- Fabric
- ▶ Lumber
- ▶ Gasoline

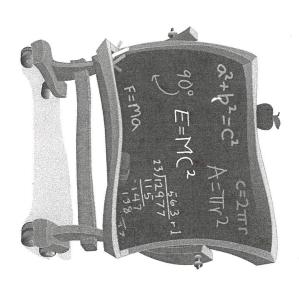
This publication is the end product of a collaborative project of the Learning Community MAT 015/016 and UCC101/024. Students were divided into groups to research math concepts. The assignment fulfills two purposes: it provides a vehicle for individual reinforcement of the challenging course content; and it offers the general student population both an example of an engaging creative activity in MAT 015, and a review or tutorial of the printed math concept.

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The What and How of Mixed Numbers

What are mixed numbers?

decimals. Such as 4.567 or whole numbers and Mixed numbers have both whole numbers and fractions, such as two and one half (2 1/2).

ADDING MIXED NUMBERS

Example Problem: 3 2/5 + 1 3/5

Step 1: To add mixed numbers, we first add the whole numbers together

and then add the fractions.

$$3+1=4$$

Step 2: Add the fractions

2/5 + 3/5 = 5/5 or 1. Add the 1 to the 4

to get the answer, which is 5

SUBTRACTING MIXED NUMBERS

Example Problem: 4 2/3 -3 1/3

Step 1: Convert the fraction to an improper fractional part. numerator and keep the denominator of the the denominator. Add the answer to the fraction by multiplying the whole number by

$$42/3 = 14/3 \ 3 \ 1/3 = 10/3$$

Step 2: Subtract the improper fractions

$$14/3 - 10/3 = 4/3$$

Simplified answer ... 1 1/3

PROBLEMS PRACTICE

SUBTRACT

batches?

ANSWERS

1.63/4

4.21/4

3. 7 3/4 = 1 1/3 +7 = 8 1/3 **6.** 1 1/3 5. 5 2/5

NOW YOU TRY USING

THE RECIPE BELOW

SUGAR COOKIES with SPLENDA

3/4 cup unsalted butter

1/4 cup light butter

l cup SPLENDA No calorie Sweetener,

Granulated

1 Tablespoon vanilla 1/4 cup egg substitute

1/4 cup water

3/4 teaspoon vinegar (white or cider)

1 1/2 cups all purpose flour or wheat flour

1 1/2 cups cake flour

1/4 teaspoon salt 1 teaspoon baking powder

For cooking directions go to:

yummy-sugar-free-holiday-sugai http://www.tudiabetes.org/profiles/blogs/

How much flour will she need to make two party and needs two batches of sugar cookies **EXAMPLE 1:** Mary is having a holiday

enough for two batches and what is the final much does she need to take away to have is enough for three batches of cookies. How and ended up with 4 1/2 cups of flour which **EXAMPLE 2:** Mary over measured her flour

ANSWERS

Example 2: 3 cups of flour Example 1: 3 cups of flour