Add the fractions by first finding the LCD.

$\frac{1}{7} + \frac{1}{3}$

$\frac{1}{7}$ ☐

$\frac{1}{3}$ ☐

(Circle the LCD)

Rewrite the fractions using the LCD and then add. Remember to reduce the answer if you can.

☐

Add the fractions by first finding the LCD.

$\frac{4}{5} + \frac{5}{6}$

$\frac{5}{6}$ ☐

$\frac{4}{5}$ ☐

(Circle the LCD)

Rewrite the fractions using the LCD and then add. Remember to reduce the answer if you can.

☐

Add the fractions by first finding the LCD.

$\frac{5}{8} + \frac{2}{3}$

$\frac{5}{8}$ ☐

$\frac{2}{3}$ ☐

(Circle the LCD)

Rewrite the fractions using the LCD and then add. Remember to reduce the answer if you can.

☐

Add the fractions by first finding the LCD.

$\frac{3}{10} + \frac{1}{2}$

$\frac{3}{10}$ ☐

$\frac{1}{2}$ ☐

(Circle the LCD)

Rewrite the fractions using the LCD and then add. Remember to reduce the answer if you can.

☐

5th Grade Number & Operations Fractions

Least Common Denominator

Name:

☐

The denominator is the _____ number in a fraction.

$\frac{1}{3}$

The numerator is: _____

The denominator is: _____

When two or more fractions have the _____ denominator, they are called common denominators.

The Least Common Denominator (or LCD) is the smallest possible common denominator for two or more fractions. Knowing how to find the Least Common Denominator helps us add and subtract _____.

Practice finding the Least Common Denominator

List the first 5 multiples for each denominator.

$\frac{1}{2}$

$\frac{1}{3}$

Circle the first multiple the two denominators have in common. This is the LCD.

The LCD is: _____

Find the LCD of the fractions below.

List the first 5 multiples for each denominator.

$\frac{3}{4}$

$\frac{1}{6}$

The LCD is: _____

Find the LCD of the fractions below.

List the first 5 multiples for each denominator.

$\frac{1}{7}$

$\frac{5}{6}$

The LCD is: _____

Find the LCD of the fractions below.

List the first 5 multiples for each denominator.

$\frac{3}{4}$

$\frac{1}{6}$

The LCD is: _____

Practice finding the Greatest Common Factor

List all of the factors for each number

9

12

The GCF is: _____

8

24

The GCF is: _____

42

14

The GCF is: _____

I have 200 blueberries and 8 bananas to make smoothies. I am going to use all of the fruit in making the smoothies. What is the largest number of smoothies I can make to use all of the fruit in equal amounts?

5th Grade Number & Operations Fractions

Simplifying Fractions

Name:

When you are simplifying a fraction, you are reducing it to lowest terms.

To reduce a fraction, you will need to find the **Greatest Common Factor** (or GCF)

Factors are numbers we multiply together to get another number.

$4 \times 3 = 12$

In this fact, ____ and ____ are the factors of _____. Other factors of 12 are 1, 2, 6 and 12.

List the factors of 18:

Practice finding the Greatest Common Factor

List all of the factors for each number

15

21

The GCF is: _____

24

18

The GCF is: _____

28

32

The GCF is: _____

Practice finding the Greatest Common Factor

List all of the factors for each number

12

16

The GCF is: _____

9

21

The GCF is: _____

35

14

The GCF is: _____

Practice adding fractions.

$\frac{2}{9} + \frac{2}{3}$

The answer is:
(Make sure you simplify the fraction if needed.)

$\frac{1}{6} + \frac{3}{5}$

The answer is:
(Make sure you simplify the fraction if needed.)

You are making cookies and muffins. You need to make sure you have enough vanilla before you begin. You will need ¾ of a tablespoon for the cookies and ½ of a tablespoon for the muffins. How much vanilla will you need?

The answer is:
(Make sure you simplify the fraction if needed.)

5th Grade Number & Operations Fractions

Adding Fractions

Name:

Before you can add fractions, you must make sure they have the same _____.

Complete the steps you need to follow to add fractions.

1. Find the LCD and rewrite the fractions so they have a common _____.

2. Add the numerators (the numerators are the numbers on _____.)

3. Keep the denominator the same and write the answer.

4. _____ or reduce the fraction if needed.

Practice adding fractions.

$\frac{3}{7} + \frac{1}{2}$

The answer is:
(Make sure you simplify the fraction if needed.)

$\frac{3}{7} + \frac{1}{3}$

The answer is:
(Make sure you simplify the fraction if needed.)

Practice adding fractions.

$\frac{1}{10} + \frac{5}{6}$

The answer is:
(Make sure you simplify the fraction if needed.)

$\frac{1}{3} + \frac{1}{4}$

The answer is:
(Make sure you simplify the fraction if needed.)

Practice subtracting fractions.

$\frac{2}{9} - \frac{2}{3}$

The answer is:
(Make sure you simplify the fraction if needed.)

$\frac{5}{7} - \frac{3}{5}$

The answer is:
(Make sure you simplify the fraction if needed.)

Jasmine ate $\frac{1}{3}$ of the pizza. Her brother Jackson ate $\frac{1}{5}$ of the pizza. How much of the pizza is left?

The answer is:
(Make sure you simplify the fraction if needed.)

5th Grade Number & Operations Fractions

Subtracting Fractions

Name:

Before you can subtract fractions, you must make sure they have the same _____.

Complete the steps you need to follow to add fractions.

1. Find the LCD and rewrite the fractions so they have a common _____.

2. Subtract the numerators (the numerators are the numbers on _____.)

3. Keep the denominator the same and write the answer.

4. _____ or reduce the fraction if needed.

Practice subtracting fractions.

$\frac{7}{10} - \frac{1}{2}$

The answer is: (Make sure you simplify the fraction if needed.)

$\frac{7}{9} - \frac{1}{3}$

The answer is: (Make sure you simplify the fraction if needed.)

Practice subtracting fractions.

$\frac{5}{6} - \frac{3}{7}$

The answer is: (Make sure you simplify the fraction if needed.)

$\frac{3}{5} - \frac{1}{4}$

The answer is: (Make sure you simplify the fraction if needed.)

The answer is: (Make sure you simplify the fraction if needed.)

The answer is: (Make sure you simplify the fraction if needed.)

Write each mixed number as an improper fraction

$1\frac{5}{6}$

The improper fraction is:

$4\frac{2}{3}$

The improper fraction is:

$2\frac{3}{4}$

The improper fraction is:

Write each improper fraction as a mixed number.

$\frac{24}{14}$

The mixed number is:

$\frac{30}{11}$

The mixed number is:

$\frac{17}{5}$

The mixed number is:

5th Grade Number & Operations Fractions

Improper Fractions & Mixed Numbers

Name:

A mixed number is a number that combines a whole number with a fraction.

$3\frac{1}{2}$

An improper fraction is a fraction that has a numerator that is larger than its denominator.

$\frac{12}{7}$

Label each number below M if it is a mixed number or I if it is an improper fraction.

$3\frac{1}{2}$ ☐

$1\frac{7}{10}$ ☐

$\frac{14}{6}$ ☐

$2\frac{1}{3}$ ☐

Writing an improper fraction as a mixed number.

$\frac{13}{3}$ Divide the numerator by the denominator.

4 whole number

3)ac denominator

-AB

1 numerator

The mixed number is:

$4\frac{1}{3}$

Now try this one!

$\frac{16}{5}$

The mixed number is: ☐

Writing a mixed number as an improper fraction.

$2\frac{1}{3}$ ←

Multiply the denominator by the whole number. Add the numerator to the product. The answer is the numerator.

3 x 2 = 6

6 + 1 = 7 ←

The denominator stays the same.

The improper fraction is: $\frac{7}{3}$

Now try this one!

$2\frac{1}{4}$

The improper fraction is: ☐