**Fundamentals of Math**

**Unit 2 Day 3**

**Title For Your Notebook:** Prime Factorization

**A PRIME NUMBER is a number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**FACTORS are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

.

**Find the factors of the following and write in order from least to greatest.**

1. **12 2. 24 3. 45 4. 27**

**U TRY!!**

1. **50 2. 32 3. 15 4. 17**

**5. 80 6. 44 7. 100 8. 7**

Prime Factorization is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

To find the Prime Factorization, you will use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Find the prime factorization.**

1. **21 2. 36 3. 12**

U TRY These!

1. 8 2. 28 3. 80

4. 6 5. 32 6. 75

**A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a number is a product of that number and any whole number.**

**The smallest multiple that 2 or more numbers have in common is the \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

1. 6 and 9 2. 3 and 4 3. 2 and 9

You TRY!!!!!

4. 12 and 20 5. 20 and 30 6. 7 and 9

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**Unit 2 Day 4**

**Title For Your Notebook:** Simplifying fractions

A **fraction** is in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ when the top and bottom cannot be any smaller (while still being whole numbers)

How to Simplify Fractions:

Simplify the following fractions:

1. 2. 3. 4.

U Try!

1. 2. 3. 4. 5.

**Fundamentals of Math http://www.mathplayground.com/howto\_comparefractions.html**

**Unit 2 Day 5**

**Title for Your Notebook:** **Comparing Fractions**

To compare fractions you determining which fraction is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and which

fractions is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

There are two ways to do this:

Method 1: Method 2:

Let’s Try! Compare the fractions:

1. 2. 3. 4.

U Try!

1. 2. 3. 4.

5. 6. 7. 8.

**Fundamentals of Math http://www.educationworld.com/a\_lesson/dailylp/dailylp/dailylp201.shtml**

**Unit 2 Day 6**

**Title for Your Notebook:** **Fraction and Decimal Conversion**

**Turning a Decimal into a fraction:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ it. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ it. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ it.**

**Let’s try it!**

1. **0.7 2. 0.2 3. 0.4**

**4. 0.13 5. 0.25 6. 0.52**

**U Try!**

**1. 0.25 2. 0.8 3. 0.75**

**4. 0.6 5. 0.88 6. 0.94**

**Turning a Fraction into a Decimal:**

**Remember a fraction is another way to write \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**So, to turn a fraction into a decimal you divide the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**Let’s Try It!**

**1. 2. 3. 4.**

**U Try!**

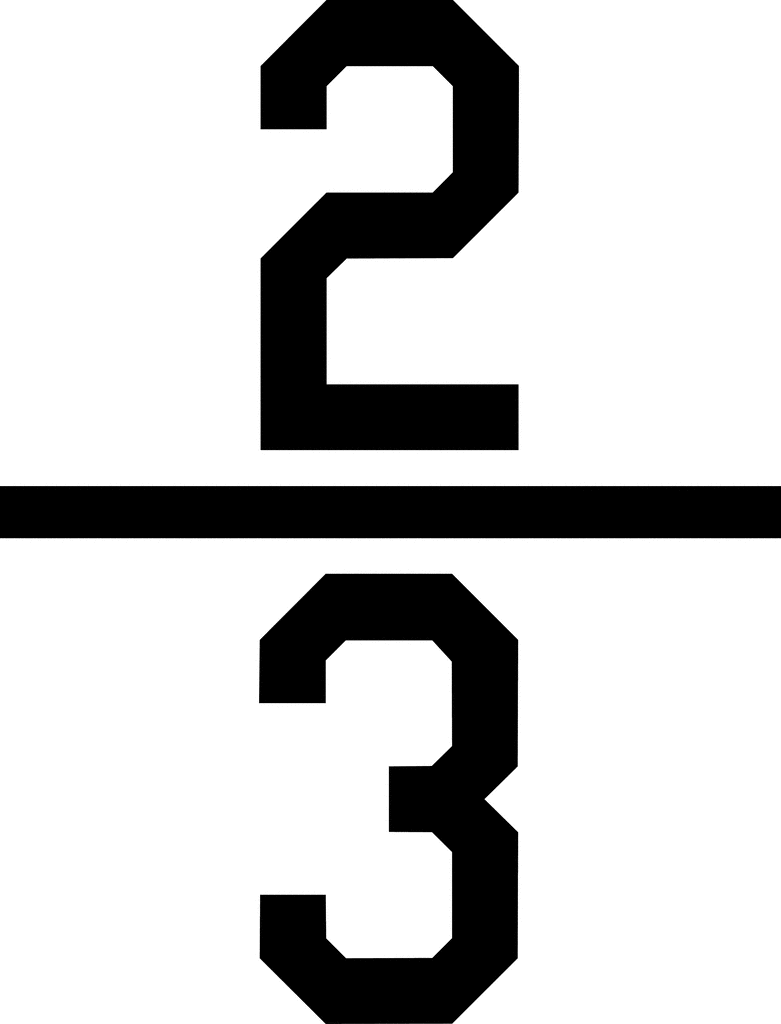
**1. 2. 3. 4.**

**Fundamentals of Math**

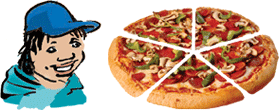
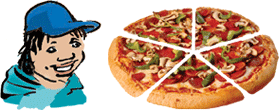
**Unit 2 Day 7**

**Title For Your Notebook:** **Adding and Subtracting Fractions**

First of all, what is a fraction? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

What does it look like?

Think about a pizza. If a pepperoni pizza is cut into five slices and you eat one, then a cheese pizza is cut into five slices and you eat two, you’ve eaten and of each pizza. How much pizza have you eaten total?



So, when you add fractions with the same denominator, the only things you add are the

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_!

Let’s try!

But what if the denominators aren’t the same? We need to find the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_!

Example 1: Add

Step 1) What is the smallest number that both 5 and 10 multiply into? \_\_\_\_\_\_

That will be our new denominator!

Step 2) But wait, you can’t just change the denominator without changing the numerator! What could you multiply 5 by to get 10? \_\_\_\_\_\_\_ Multiply 3 by that same number!

Step 3) Our problem now looks like…  
 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Step 4) Now that our denominators are the same, just add the numerators!

Let’s try some more!



You’ll use a similar method for subtracting!

**Subtracting with Like Denominators**



**Subtracting with Different Denominators**

Use the same process you used with adding, but subtract this time!

Subtract

Step 1) What is the smallest number that both 5 and 8 multiply into? \_\_\_\_\_\_

That will be our new denominator!

Step 2) But wait, you can’t just change the denominator without changing the numerator! What could you multiply 5 and 8 by to get 40? \_\_\_\_\_\_\_ Multiply the numerators by those numbers!

Step 3) Our problem now looks like…  
 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Step 4) Now that our denominators are the same, just subtract the numerators!



**Fundamentals of Math**

**Title For Your Notebook:** Multiplying Fractions and Dividing Fractions

**Unit 1, Day 9**

Multiplying fractions is even easier than adding and subtracting them!

All you have to do is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example 1 : Multiply and simplify

Example 2: Multiply and simplify

Practice!



Dividing fractions is a little tricker! In order to divide, we have to use the

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ method! Then, we just multiply!

**Example 1: Divide and simplify**

Step 1: Keep – change – flip!

Step 2: Multiply numerators and denominators.

Step 3: Simplify if necessary.

**Example 2: Divide and simplify**

**Practice!**

