**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. $\frac{6}{8}$ 2. $\frac{5}{10}$ 3. $\frac{9}{12}$ 4. $\frac{12}{18}$

 U Try!

1. $\frac{4}{10}$ 2. $\frac{6}{12}$ 3. $\frac{20}{30}$ 4. $\frac{4}{6}$ 5. $\frac{15}{20}$

**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. $\frac{2}{5} \frac{4}{5}$ 2. $\frac{3}{4} \frac{2}{3}$ 3. $\frac{1}{6} \frac{5}{8}$ 4. $\frac{4}{6} \frac{10}{15}$

U Try!

1. $\frac{1}{6} \frac{4}{6}$ 2. $\frac{1}{4} \frac{1}{8}$ 3. $\frac{3}{6} \frac{8}{12}$ 4. $\frac{5}{6} \frac{2}{15}$

5. $\frac{1}{15} \frac{4}{5}$ 6. $\frac{3}{4} \frac{1}{3}$ 7. $\frac{2}{4} \frac{4}{8}$ 8. $\frac{3}{7} \frac{2}{3}$

**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.** $\frac{2}{8}$ **2.** $\frac{1}{3}$ **3.** $\frac{5}{6}$ **4.** $\frac{6}{10}$

**U Try!**

**1.** $\frac{7}{10}$ **2.** $\frac{4}{9}$ **3.** $\frac{6}{12}$ **4.** $\frac{4}{5}$

**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 $\frac{1}{5}$ and $\frac{2}{5}$ 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 $\frac{3}{5}+\frac{7}{10}$

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 $\frac{5}{6}∙\frac{4}{3}$

Example 2: Multiply and simplify $-\frac{3}{5}∙\frac{7}{3}$

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** $\frac{1}{2}÷\frac{8}{7}$

Step 1: Keep – change – flip!

Step 2: Multiply numerators and denominators.

Step 3: Simplify if necessary.

**Example 2: Divide and simplify** $-\frac{1}{7}÷\frac{9}{4}$

**Practice!**

