### Comparing Fractions, Decimals, and Percents

### Fractions can be your friend!

- OA fraction is made up of two parts.
- The top part is called the <u>numerator</u>.
- The bottom part is called the <u>denominator</u>.





# Converting Fractions Into Decimals with a calculator is Easy!

- The first thing you do is type in the numerator
- Then you press the \_\_division\_\_key
- The next thing you do is type in your denominator
- Press the \_\_\_equal\_\_\_ sign
- Then PRESTO you are now converted!

### Now Let's Try It!

- Convert \_\_\_\_ into a decimal.
- The answer is \_\_\_\_\_0.5833333...\_\_\_\_\_.
- Now convert \_\_\_\_\_ into a decimal.
- The answer is \_\_\_\_\_06\_\_\_.
- Finally, let's convert \_\_\_\_\_\_.
- The answer is \_\_\_\_\_\_.

# Sometimes it is necessary to take a fraction and reduce it to its simplest form. Here is a review:

- First you need to see if they have any common factors.
- The easiest way to do this is to factor both the numerator and denominator down to all prime numbers
- Then circle all of the numbers that both the numerator and denominator have in common
- •• Next multiply these common factors for either the numerator or denominator together
- Finally, divide both your numerator and denominator by this number
- Presto you are now simplified! Aaaah! The simple life!

#### Here is a demonstration:

Can 24/32 be simplified?

Let your brilliant teacher show you how to create a factor tree for each of these on the board.

### Converting Percents to Decimals is Even Easier!

- All you need to do is move your decimal point over two places to the left
- Then remove that worrisome <u>percent</u> symbol
- And Abracadabra you have converted a percent into a decimal
  !

Hint: If there is no decimal, you start by putting one to the far right of the number and then begin!

### Now it's your turn!

$$0.98\% = .98$$
 $0.71\% = .71$ 
 $0.06\% = .0006$ 
 $0.7.1\% = .071$ 
 $0.9\% = .009$ 
 $0.9\% = .26$ 

## You are a Genius!

#### Now let's talk about decimals!

- Decimals are just like regular numbers
- The bigger the decimal . . . The bigger the number

Which is bigger?

.045 or .45?

To figure this out you need to fill in a <u>zero</u> at the end so that they are even, and then imagine that the decimal is no longer there. This would give you 045 and 450. Now which one is bigger? <u>.45</u>

# Here comes the tricky part! Now we have to learn how to put a list of fractions, decimals and percents in order from least to greatest!

- The first thing we need to do is write each one of them on a line going down our paper.
- Next we need to convert each of them into decimals
- Then we need to put a little letter beside each of them with "A" being the littlest and "D" being the greatest
- Finally we need to re-order them from least to greatest in their original form using our letter system
- If you have a multiple choice question, then at this point you need to choose the answer that looks like yours, if not then just write your answer!

### Okay, so now it's your turn!

Which list of numbers is in order from least to greatest?

It may seem really hard, but I promise you it is not that bad!

Let's take it one step at a time: The first thing we need to do is write each one in a line going down our paper. Since we have four different choices we should start with choice "A" and convert those.

**0.3** 



Now this first one is already a decimal so we are going to leave it alone for now.

- **0** 4/5
- **0** 27%
- **(1)**

### Next we need to convert each of them into decimals

0.3





Remember to type in 4 divided by 5 equals into your calculator

**10**27%



Don't forget to move that decimal two places to the right!

 $\mathbf{O}()$ 

### So let's see if you are right?

$$0.3 = 0.3$$

$$04/5 = 0.8$$

$$_{\odot 27\%} = 0.27$$

$$= 0$$

### Now we need to make sure that our decimals all have the same number of places.

$$0.3 = 0.3$$

$$04/5 = .8$$



$$00 =$$



Since this number has two places behind the decimal let's add zeros and a decimal (if missing) to the rest to make them all even.

Since .27 has two places behind the decimal let's add zeros and a decimal (if missing) to the rest to make them all even.

$$0.3 = 0.3 = 0.30$$

$$04/5 = .8 = 0.80$$

$$027\% = ...27 = 0.27$$

Then we need to put a little letter beside each of them – with "A" being the littlest and "D" being the greatest

$$0.3 = 0.3 = 0.30$$

$$04/5 = .8 = 0.80$$

$$0 = 0.00$$
 A

$$00 =$$

# Finally we need to re-order them from least to greatest in their original form using our letter system

$$0.3 = 0.30$$

$$04/5 = ...8 = 0.80$$

$$\omega_{27\%} = .27 = 0.27$$
 B

$$0 = 0.00$$
 A

\_\_\_\_\_\_ 0,27%, 0.3, 4/5 is the proper order

# 0,27%, 0.3, 4/5 is the proper order, so what is the best answer?

Which list of numbers is in order from least to greatest?

a)0.3, 4/5, 27%, 0

b)27%, 0.3, 0, 4/5

c)4/5, 0, 0.3, 27%

d)0, 27%, 0.3, 4/5



If you guessed "D" then you are a math whiz!

#### The End

\*\*\* This extraordinary Power Point was created by one of the best teachers in the entire world!

## Drum roll, Please!

Mrs. Hacker