Pre-Algebra Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per. \_\_\_\_\_\_ A or B

CC2 Ch. 2

**REDUCING FRACTIONS WS**

(Mixed Numbers, Proper Fractions, & Improper Fractions)

**Directions**: REDUCE!!!!!!!!!!! ☺ ALL THE WAY!!!! Until you can’t anymore!!!!!!!!!!!

Every single problem on this worksheet will require you to reduce! For # 9 & 10, you may want to reduce first!

1.) 2.)

3.) 4.)

5.) 6.)

7.) 8.)

9.) 10.)

**REPEATING DECIMALS TO FRACTIONS**

**Directions:**

1. NEVER put “***repeater bars***” within a faction ☹ No 🡪 ; ☺ (Yes)
2. If 1 digit repeats, place that number over **9**.
3. If 2 digits repeat, place that number over **99**.
4. If 3 digits repeat, place that number over **999**… etc!
5. REDUCE YOUR FINAL ANSWER (try dividing by 9 or 3).

**YOU TRY!** (Hint: they ALL need to be reduced!)

1. Change to a fraction. Show your work and REDUCE!
2. Change to a fraction. Show your work and REDUCE!
3. Change to a fraction. Show your work and REDUCE!
4. Change to a fraction. Show your work and REDUCE!
5. Change to a fraction. Show your work and REDUCE!
6. Change to a fraction. Show your work and REDUCE!

**REVIEWING HOW TO ADD & SUBTRACT MIXED NUMBERS!**

You usually have **2 options** when adding or subtracting mixed numbers.

I will show you the ***same example*** evaluated in ***two*** *different ways*… take a look! ☺

• **Option 1**:

* Leave the whole number part of the mixed numbers and just find the LCD of the fractions
* Then add/subtract the whole numbers, then add/subtract the fraction portions (careful, you may need to borrow from one of the whole numbers in order to subtract your fractions)
* Make sure your final answer is REDUCED!

Ex: (*The LCD = 20)*

Borrow from the 9 so we can subtract 15/20.

now subtract

• **Option 2**:

* Covert ALL fractions to **improper fractions**, find the LCD, then add or subtract the fractions
* Make sure your final answer is REDUCED!

Ex: turns into after making both mixed numbers improper.

🡪 With LCD of 20 you get 🡪

You can leave your answer as an improper fraction or a mixed number.

**NOTE**: No matter which of these two options you choose, work through the problem slowly and check that your final answer is reduced. ☺ Make sure to show your support work by showing your multiplication/addition/subtraction/division calculations. Do not do work in your head, please and thank you!