

Warmup 8/ (The number of letters in “It’s FRIDAYYYYYYYYYY!!!!”)

*****Please make sure your poster is turned in!
Put it in the same spot your class has been
leaving it each day.*****

- I. On your warmup page, write a few sentences about your experiences doing the poster project. Whether you liked it or not, why, etc.

Your Warmup Page:

Week 2 Warmups

M:

T:

W:

Th:

F:

NOTE 1: If you are ever absent, please put “Absent” for that day. That way, I won’t mark you off for not having it.

NOTE 2: Each week will be worth 5 points; 1 point for each day. You must do each problem to get the point.

I will add up all these points and put in your “Warmup score” at the end of the 9 weeks. It will be an 0.25 summative grade.

2 volunteers...

- 1 to collect Week 2 Warmups
- 1 to collect everyone's purple pattern sheet w/ the rubric on it

Group evaluations

- On the provided sheet, please give both of your group-mates a score, based on how well they contributed and stayed on task. You must provide reasons, especially if you gave them a rating less than 5!
- **This will be anonymous!** Their “individual contribution” score is a mix of your scores, my own observation, and your work on the back of this page.
- On the back of this page, you must calculate the number of units in step _____ using both of your methods. You must show all work. You don't have to draw pictures, but you can.

Today:

- We are starting Unit I: Rational Numbers
 - Converting Fractions and Decimals
 - Square Roots
 - Difference between Rational & Irrational Numbers
- Our first quiz will be Friday!!!

Our binder

- The FIRST page of the binder will be your “table of contents”
- This will help you easily find notes & other pages to review
- There may be a couple binder checks this year, so please keep your binder up to date!
- Whenever we take notes, the **red** is what you are required to write. Everything else is up to you.

Table of Contents

p. I Converting Fractions and Decimals (I.I)

Converting Fractions and Decimals

Objectives:

- Convert fractions to decimals
- Convert regular decimals to fractions
- Convert repeating decimals to fractions

Objective 1: Fraction to decimal

- How can I convert the fraction $\frac{37}{4}$ into a decimal???
- **Many times, you don't have to resort to long division! Converting to a mixed number, then a decimal is often easier.**

Some common fractions...

$$\bullet \frac{1}{2} = .5$$

$$\bullet \frac{1}{4} = .25$$

$$\blacktriangleright \frac{1}{5} = .2$$

$$\bullet \frac{2}{4} = .5$$

$$\blacktriangleright \frac{2}{5} = .4$$

$$\bullet \frac{3}{4} = .75$$

$$\blacktriangleright \frac{3}{5} = .6$$

$$\blacktriangleright \frac{1}{3} = .\overline{3}$$

$$\blacktriangleright \frac{2}{3} = .\overline{6}$$

$$\blacktriangleright \frac{4}{5} = .8$$

Converting Fractions without long division

Convert without long division:

$$1) \frac{23}{4} \rightarrow 5\frac{3}{4} \rightarrow 5.75$$

$$2) \frac{56}{5} \rightarrow 11\frac{1}{5} \rightarrow 11.2$$

Do we remember how to do long division???

Handwritten long division of 143.75 by 4:

$$\begin{array}{r} 35.75 \\ 4 \overline{) 143.75} \\ \underline{12} \\ 23 \\ \underline{20} \\ 30 \\ \underline{28} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

The result is $35\frac{3}{4}$ or 35.75.

Which of these are equivalent to
 $15 \div 12$?

$$\frac{12}{15}$$

or

$$\frac{15}{12}$$

$$15 \overline{)12}$$

or

$$12 \overline{)15}$$

$$15 \div 12 = \frac{15}{12} = 12 \overline{)15}$$

- *******The numerator goes under the long division sign!!!*******

BEST ADVICE I CAN GIVE YOU FOR THIS LESSON

- Think about what a reasonable answer would be!!!
- $\frac{4}{11} = ?$
- If you put the numbers in the wrong places, like so... $4 \overline{)11}$
- ...you will get 2.75. You should KNOW that $\frac{4}{11}$ cannot be 2.75!!!

Fraction → Decimal

My Estimate

Answer

1. $\frac{1}{9}$

2. $\frac{11}{8}$

3. $4\frac{1}{6}$

4. Early finisher (challenge): $\frac{16}{7}$

Fraction \rightarrow Decimal

1. $\frac{1}{9} = .111111 \dots$ or $\overline{.1}$

2. $\frac{11}{8} = 1.375$

3. $4\frac{1}{6} = 4.16666 \dots$ or $4.1\overline{6}$

4. Early finisher: $\frac{16}{7} = 2.\overline{285714}$