

Name: _____

Core: _____

Homework: Adding and Subtracting Decimals
Due Friday, February 9th

Classwork

Example 1 – Read and re-read to understand each step

Solve: $25\frac{3}{10} + 376\frac{77}{100}$

Step 1: Convert the mixed numbers into decimals.

$$25\frac{3}{10} =$$

$$376\frac{77}{100} =$$

Step 2: Find the exact answer. Line up the decimals before you add!

Step 3: Round the final answer.

Rounding to the nearest whole number rule:

If the numbers in the tenths place is 0 to 4, keep the whole number the same

If the number in the tenths place is 5 to 9, add 1 to the whole number

To the ones place:

To the tenths place:

Example 2

Change to decimals:

Solve:

$$54\frac{7}{10} + 12\frac{23}{100}$$

Example 3

Change to decimals:

Solve:

$$426\frac{1}{5} - 275\frac{1}{2}$$

Homework – Converting Fractions and Decimals

****Hint: convert any fraction to a decimal by using a calculator and dividing the numerator by the denominator****

Convert the following mixed numbers to decimals.

1. $4 \frac{18}{25} =$ _____

2. $1 \frac{2}{3} =$ _____

3. $10 \frac{1}{2} =$ _____

4. $8 \frac{86}{100} =$ _____

5. $10 \frac{1}{4} =$ _____

6. $7 \frac{42}{50} =$ _____

7. $8 \frac{4}{5} =$ _____

8. $2 \frac{6}{10} =$ _____

Convert the following decimals to mixed numbers.

Reduce the fractions to simplest form.

1. $8.05 =$ _____

2. $2.32 =$ _____

3. $9.1 =$ _____

4. $4.2 =$ _____

5. $0.86 =$ _____

6. $0.6 =$ _____

7. $0.33 =$ _____

8. $0.27 =$ _____

Homework – Word Problems

Calculate each sum or difference. Use the 3 steps from the Examples to help you solve!

1. Keyanna and her friends are going on a road trip that is $245\frac{7}{50}$ miles long.
They have already driven $128\frac{53}{100}$. **How much farther do they have to drive?**

2. Darnell needs to replace two sides of his fence. One side is $367\frac{9}{100}$ meters long, and the other is $329\frac{3}{10}$ meters long. **How much fence does Ben need to buy?**

3. Malachi wants to paint his new office with two different colors.
If he needs $4\frac{4}{5}$ gallons of red paint and $3\frac{1}{10}$ gallons of tan paint, **how much paint does he need in total?**

4. After Samarra completed some work, she figured she still had $78\frac{21}{100}$ pictures to paint. If she completed another $34\frac{23}{25}$ pictures, **how many pictures does Samarra still have to paint?**

Use a calculator to convert the fractions into decimals before calculating.

5. Dr. Emerson wants to determine how much gasoline him and his wife use in a month.
Dr. Emerson found that he used $78\frac{1}{3}$ gallons of gas last month. His wife used $41\frac{3}{8}$ gallons of gas.
How much total gas did Dr. Emerson and his wife use last month?

Gas currently costs \$2.49 a gallon. Estimate how much money Dr. Emerson and his wife spent on gas last month.

Advanced Learners Problem Set

1. Find each sum or difference. Show your work, no calculators!

a. $32\frac{3}{4} - 12\frac{1}{2}$

b. $517\frac{37}{50} + 312\frac{3}{25}$

c. $632\frac{16}{25} + 32\frac{3}{10}$

d. $421\frac{3}{50} - 212\frac{9}{10}$

2. Use a calculator to find each sum or difference. Round your answer to the nearest hundredth.

a. $422\frac{3}{7} - 367\frac{5}{9}$

b. $23\frac{1}{5} + 45\frac{7}{8}$