AIM: 1-7 How do we ADD and SUBTRACT Decimals?

Name _____ Date _____

Ms. Piccolo Math 6 - Period _____

Warm-up: Describe, in words, how to arrange the decimals in order from greatest to least.

0.033, 0.03, 0.33

To arrange the decimals in order from greatest to least you would look at its place value. Start with the ones and compare the numbers to see which one is the larger number. Repeat this process with the tenths, hundredths, and thousandths place value.

hundredths
tenths
0.033
0.030
0.330

0.33, 0.033, 0.03

Let's Investigate: How do we add and subtract decimals?

'decimal wall'

When adding or subtracting decimals, you must line up the decimals points. Annex (add) zeroes as placeholders, when needed. Then add or subtract as you would with whole numbers. Be sure to bring down the decimal point!

Vocabulary:

- Addends - Numbers that are added together. 2 + 3 = 5
- Sum - The answer to an addition problem. 2 + 3 = 5
- Difference - The answer to a subtraction problem. 5 - 3 = 2

1) 6.047 + 13.36	2) 9 - 5.28	3. You mix a cleaning solution with 1.18 liters water, 0.15 liters vinegar, and 0.02 liters liquid soap. The container for this solution must have at least what capacity? (+)
06.047 + 13.360 19.407 19.407	8 9 10 - 5.28 3.72 3.72	1.18 0.15 + 0.02 1.35 1.35 L

Now You Try!

4. 1.937 + 2.28

$$\begin{array}{r} {\scriptstyle 1\ \ 1\ \ \ } \\ 1.937 \\ +\ 2.280 \\ \hline 4.217 \end{array}$$

5. 4.59 − 3.17

$$\begin{array}{r} 4.59 \\ -\ 3.17 \\ \hline 1.42 \end{array}$$

$7

6. You have $15. You want to buy a bouquet of tulips for $6.99 and a bouquet of assorted flowers for $7.50 at a flower shop. Do you have enough money to buy both bouquets? *Explain.*

1) Add $6.99 and $7.50

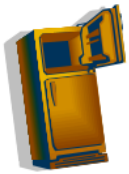
$$\begin{array}{r} 6.99 \\ +\ 7.50 \\ \hline 14.49 \end{array}$$

2) Round $6.99 to $7 and $7.50 to $8.
7 + 8 = 15. You have enough money because you rounded each amount to its largest place value.

You will have enough money because $14.49 < $15.

7. As a refrigerator salesman, Justin makes $20.55 a day. He gets an additional $5.35 for each refrigerator he sells and an additional $4.24 for each dishwasher he sells. On Friday, he sold three dishwashers and four refrigerators.

a) How much money did Justin make on Friday? Write a numerical expression.



$20.55 + (5.35 \times 4) + (4.24 \times 3)$

$20.55 + 21.40 + 12.72$

$54.67