MATHEMATICS 5

ADDITION AND SUBTRACTION OF MIXED DECIMALS WITHOUT REGROUPING

Revised 2010
by the Learning Resource Management and Development System (LRMDS),
DepEd - Division of Negros Occidental
under the Strengthening the Implementation of Basic Education
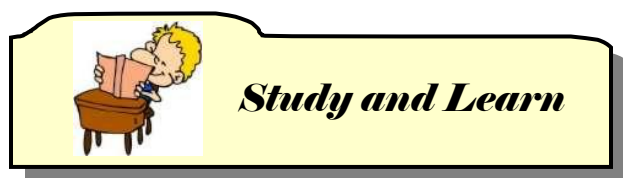in Selected Provinces in the Visayas (STRIVE).

ADDITION AND SUBTRACTION OF MIXED DECIMALS WITHOUT REGROUPING

Objective: Add and subtract mixed decimals without regrouping

Review

Round off the following decimal numbers.

1) 4.623   (tenths)   _____

2) 13.846   (hundredths)   _____

3) 115.2834   (thousandths)   _____

4) 6.409   (tenths)   _____

5) 14.3239   (thousandths)   _____

Study and Learn

Read and understand the story problem below.

Freddie is a Grade IV pupil of Gregoria de Jesus Elementary School. He sells ice candy after class. On Monday he earned ₱61.75 and on Tuesday ₱52.00. How much did he earn in two days?

What is asked in the problem?
How much did he earn in two days?
What shall we do to solve the problem?

We shall add.

Let's solve for the sum following the steps below.

1. **Align the decimal points**

   ₱61.75
   + 52.00

2. **Add as you would add whole numbers. Regroup if necessary.**

   ₱61.75
   + 52.00
   ₱113.75

3. **Place the decimal point in the sum in line with the decimal points of the addends.**

   ₱61.75
   + 52.00
   ₱113.75

Freddie earned ₱114.25 in two days.

If Freddie spent ₱12.75 from his earnings. How much will be left?

What process shall we use to solve the problem? *Subtraction*

What is the number sentence?

₱113.75 - ₱12.75 = N

Let's solve this together following the steps below:

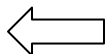1. **Align the decimal points. Use zero as place holder if necessary.**

   ₱113.75
   - 12.75

2. **Subtract the same way as we subtract whole numbers. Regroup if necessary.**

   ₱113.75
   - 12.75
   ₱101.00

3. **Place the decimal point in line with the decimal points of the minuend and subtrahend.**

   ₱113.75
   - 12.75
   ₱101.00

Below are other samples for you to study.

Addition: Subtraction:

12.3621 + 24.723 + 3.461 = N   45.72 – 13.694 = N

12.0621   ⟸ Align the decimal points. Use zero as place holder if necessary. ⟹   45.896
24.7030   - 13.694
+ 3.1110
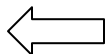
12.0621	Add/subtract as you would add/subtract whole numbers. Regroup if necessary.	45.896
24.7030	⟸	- 13.694
+ 3.1110	⟹	32 202
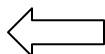
12.3621	Align the decimal point of the result with the decimal point of the addends/minuend and subtrahend.	45.896
24.7230	⟸	- 13.694
+ 3.4610	⟹	32.202

The sum is 39.8761.

Were you able to follow? Try to answer the exercises below by yourself.

Try These
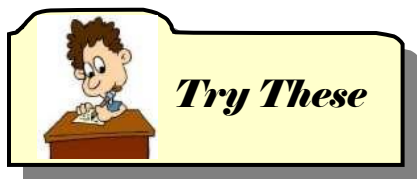
A. Solve the following:

1. What is the sum of 2.712 and 3.254?
2. What is 13.254 less 11.132?
3. What is 6.271 increased by 2.004?
4. What is 2.043 added to 12.302?
5. How much more is 24.272 than 11.121?

B. Find the sum or difference.

1) 34.253	2) 123.268	3) 36.257
+ 63.721	- 112.153	- 23.214

4. 2.4626	5. 23.4275
1.2130	15.2104
3.3121	+ 30.3120

Wrap Up

In adding/subtracting mixed decimals follow these steps:

- Arrange the mixed decimals in a column and align the decimal points. Use zero as place holder if necessary.
- Add/subtract as whole numbers. Regroup if necessary.
- Place the decimal point directly below the decimal points of the addends/minuend and subtrahend.

On Your Own

Solve the following:

1. What is 2.727 more than 13.201?
2. Find the sum of 2.61, 3.227 and 4.030?
3. Twelve and three hundred twenty-five thousandths less 10.214?
4. Subtract 2.272 from 43.285
5. What number should we add to 6.472 to get 9.685?

6) 2.4785	7) 12.772	8. 43.23
2.1103	- 10.321	+ 26.21
+ 4.0100		

9. 2.642	10) 12.731
+ 1.234	21.051
	+ 31.013

ADDITION AND SUBTRACTION OF MIXED DECIMALS WITHOUT REGROUPING

REVIEW

1) 4.6
2) 13.85
3) 115.283
4) 6.4
5) 14.324

TRY THESE

A.
1) 5.966
2) 2.122
3) 8.275
4) 14.345
5) 35.393

B.
1) 97.974
2) 11.115
3) 13.043
4) 6.9877
5) 68.9499

ON YOUR OWN

1) 15.928
2) 9.867
3) 1.111
4) 41.013
5) 3.213
6) 8.5988
7) 2.451
8) 69.44
9) 3.876
10) 64.785