5

MATHEMATICS

2ND QUARTER – Module 2:

DECIMALS

JANUARY
Makugihon

FEBRUARY
Mahigugmaon

MARCH
Matinabangon

APRIL
Matinahuron

MAY
Mahapsay og Malinaw-

JUNE
Maabtik og Musunod sa Ihsuktong Oras

JULY
Maantigo og Maabilidad

AUGUST
Maginhunahunaon para sa Uban

SEPTEMBER
Madaginoton

OCTOBER
Matinud-anon

NOVEMBER
Masaligan

DECEMBER
Maalampuon

Name of Learner: _____

Grade & Section: _____

Name of School: _____

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What I Need to Know

This module is intended for Grade 5 learners. This was written to respond the needs of the time. The activities of this module will you to discover the rules and concepts of the lesson.

Your parents, elder brothers and sisters play a very important role in learning the activities. If there are instructions or activities which are not very clear to you, please ask them to help you.   .

After going through this module, you are expected to:

1. enhance your skills how to compare and arrange decimal numbers; and
2. sharpen your ability to add and subtract decimal numbers through thousandths without and with regrouping
   (**M5NS-IIb-104.2, M5NS-IIb-106.1**)

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Lesson 2

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Compare and Arrange Decimal Numbers,
 Add and Subtract Decimal Numbers Through Thousandths Without and With Regrouping

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What's In

A. In your previous grade, you have learned on how to compare and arrange decimal numbers.

   1. Arrange the following decimals in ascending order; (least to greatest)
        1. 506,   1.56   0.8   _____

   2. Rewrite the following decimals in descending order (greatest to lowest)
        0.402,   0.42,   0.375,   0.85 _____

B. Can you still remember on how to add and subtract decimal numbers

   through hundredths without and with regrouping? Just look at the

   picture on how to find the sum or difference.

Find each sum or difference.
A. 1.8 + 0.2

   1.8 + 0.2 = 2.0   *Think: 0.8 + 0.2 = 1.*

B. 4 − 0.7

                            Think: What number added
                            to 0.7 is 1?
   4 − 0.7 = 3.3   *0.7 + 0.3 = 1*
                            So 1 − 0.7 = 0.3

   So;   1. Find the sum of 64.2 +3.4 _____

        2.   Find   the   difference   514-   1.72   _____

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What's New

Activity 1

How do you compare decimal numbers?
There are three ways to compare decimal numbers. The first one is by using a number line for small scale or difference between numbers. Second is using place value chart for numbers that cannot be represented in a number line. The third way is by adding zero to make the digit of decimal numbers evenly .
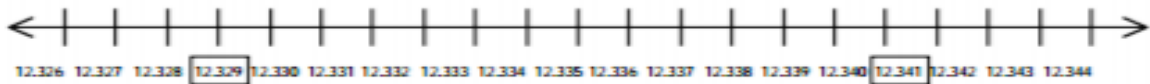
Which is less   12.341 or 12.329?

12.326 12.327 12.328 12.329 12.330 12.331 12.332 12.333 12.334 12.335 12.336 12.337 12.338 12.339 12.340 12.341 12.342 12.343 12.344

Study the example below:

Start at the table left side.
The number line starts with 12.326. It is the smallest value in the set which is located at the leftmost part of the number line.
The number ends with 12.344. It is the greatest value in the set which is located at the rightmost part of the number line.
In the number line we can clearly locate that 12.329 is at the left side while 12.341 is located at to right side.
So, 12.341 is greater than 12.329. We can write the symbol as
12.329<12.341 or 12.341>12.329

Activity 2:

Addition of decimals without regrouping
Write the decimal in column:

```
      0.235
   + 0.4
    --------
```

Addition of decimal with regrouping
Add 0.67 and 0.42

```
        0.67
     + 0.42
      -----------
```

Substraction of decimal without regrouping
Subtract 0.3 from 0.92

```
        0.92
      - 0.3
      ----------
```

Subtraction with regrouping

Subract 0.15 from 0.832

```
    0.832
-   0.15
  -----------
```

What is It

Study another set of example using the place value chart.

Place Value	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths
Value	10	1	•	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
Digits	1	2	•	7	8	9

Which is bigger, 12.789 or 12.765?

12.789>12.765

Original Number				
0	•	2		
0	•	1	9	8

New Number Formed by Adding 0				
0	•	2	0	0
0	•	1	9	8

The given decimals have the same number of digits. In this example, 0.200 is greater than 0.198. In symbol, we can write this as   0.200>0.198

Without Regrouping

	Hundreds	Tens	Ones	Decimal Point	Tenths	Hundredths	Thousandths	
		9	1	•	2	4	6	
	1	0	5	•	6	5	2	
+	1	9	6	•	8	9	8	Sum

How can we solve the problem? To solve the problem, we must need to add the first given data: 105.692 square meters and 91.246 square meters. The number sentence is 105.652 + 98.276 = 203.93

With Regrouping

1. Find: 24.231 + 16.11 + 5.241 = N   Ans.45.582
2. Find : 0. 879 – 0.3472 = N   Ans. 0.523

What's More

Give the correct answer.

_____1. Write <, > or = on the blank to make the sentence 0.55 _____0.055

   correct

_____2. Arrange 0.481, 0.38, 0.256, 0.7349 from greatest to least.

_____3. Find N in 36.25 + 18.8 + 15.6 = N

_____4. Anna bought a bunch of flowers for P125.50. If she gave a P100
   bill and P 50 bill, how much was her change?
      a. 24.60   b. 24.50   c. 24.70   d. 24.80

_____5. Nida's house is 0.8 km to Salug Terminal. If she rides 0.65 km and
   walks the rest of the distance in going to terminal, how many more km.
   does she need to walk?
      a. 0.15km   b. 0.16km   c. 0.17km   d.0.18km

What I Have Learned

How to compare decimals, we need to:

- Align first the decimal points and the digits in their corresponding place values.
- Begin comparing the digits in their corresponding place values.
- Use the symbols < or > in comparing the digits in the same place value.

How to add/ subtract decimals :

- Write the decimals such that the decimal points are in column.
- Starting adding/ subtracting from the right.
- Add/Annex 0 to make the number of digits the same.
- Rename and regroup when necessary.

What I Can Do

Direction: Underline the letter of the correct answer.

1. What is the sum of 23.11, 97, 97.4, and 68.3 is _____?
   a. 189.81   b, 1898.1   C.1.8981   d. 285.81
2. What is the answer when135.45 is added to 15.398?
   a 150. 858   b. 151.847   c. 150.848   d. 150.748
3. Add 82.839 to the difference of 189 and 158.84.
   a. 112.000   b. 113.999   c. 1129.99   d. 112.999
4. Find the difference 82.839 and 25.1.
   a. 57.739   b. 57.714   c. 295.712   d. 295.715
5. What is the answer when 612.34 is added to the difference of 65.7 and 47.89?
   a. 360.148   b. 630.015   c. 630.15   c.3.60148

Assessment

Direction: Select the letter of the correct answer:

1. Which of the following is arranged from greatest to least?
    a. 3.756   37.56   375.6   0.3756
    b. 0.2468   0.2486   0.2648   0.2448
    c. 11.010   11.011   11.0110   1.1101
    d. 2.86   2.75   2.68   2.56

2. Select the correct order of decimal numbers from greatest to least.
    a. 3.756   37.56   375.6   0.3756
    b. 375.6   37.56   3.756   0.3756
    c. 37.56   375.6   3756   0.3756
    d. 0.3756   37.56   375.6   3.756

3. Alex traveled 41.3 kilometers on Monday and 53.75 kilometers on Tuesday. How many kilometers did he travel in two days?
    a. 95.05km   b. 94.87km   c.13.635km   d. 9.505km

4.   In a midnight sale, a radio cassette player was sold at P1449.95. If its regular price was P1950.50, how much less was the sale price?
    a. P500   b. P500.55   C. P16,946.45   d. P17,000

5. Which of the following statement is true?
    a. 138.9> 132.3   c. 37.6<26.8
    b. 689.5<134.5   d. 45.8>46.9

6. Find the sum: 0.76 + 0.118
    a. 60.878   b. 0.778   c. 0.878   d. 68.78

7. Find the difference : 78.965 - 6.98 _____
    A. 67.987   b.70.986   c.71.988   d.71.985

8. Add   0.77 + 0.89 + 0.9993 =
    A. 2.6593   B. 26.53   C. 265.3   d. .2653

9. Subtract   42.05 - 25.38 _____
    a. 10.45   b. 17.32   c. 16.67   d.174.7

10. A pair of shoes cost P308.35. Wally has saved only P189.50.

    How much does he still need to buy the pair of shoes?

    a.P1188.5   b. P 1.1885   c. 11.885   d. P 118.85

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Answer Key

What I Can

1.D
2.C
3.D
4.A
5.C
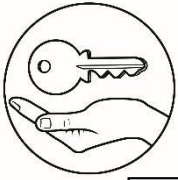
Pre/Post-Test

1.d
2.b
3.a
4.b
5.a
6.c
7.d
8.a
9.c
10.d

What's New

Activity 1   12.329<12.341 or 12.341>12.329

Activity 2   A. 0.635

B. 1.09

C. 0.62

D. 0.682

What is it

12.789<12.765
0.200>0.198
203.938
45.582
0.523

What's More

>
0.7349, 0.481, 0.38, 0.256
70.65
B
A

What's In

1. 0.8,
1.506, 1.56
2. 0.85, 0.42,
0.402, 0.375

Assessment

a	10.d
b	9.c
a	8.a
b	7.d
d	6.c

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I AM A FILIPINO
by Carlos P. Romulo

I am a Filipino – inheritor of a glorious past, hostage to the uncertain future. As such, I must prove equal to a two-fold task – the task of meeting my responsibility to the past, and the task of performing my obligation to the future.

I am sprung from a hardy race – child many generations removed of ancient Malayan pioneers. Across the centuries, the memory comes rushing back to me: of brown-skinned men putting out to sea in ships that were as frail as their hearts were stout. Over the sea I see them come, borne upon the billowing wave and the whistling wind, carried upon the mighty swell of hope – hope in the free abundance of the new land that was to be their home and their children's forever.

This is the land they sought and found. Every inch of shore that their eyes first set upon, every hill and mountain that beckoned to them with a green and purple invitation, every mile of rolling plain that their view encompassed, every river and lake that promised a plentiful living and the fruitfulness of commerce, is a hollowed spot to me.

By the strength of their hearts and hands, by every right of law, human and divine, this land and all the appurtenances thereof – the black and fertile soil, the seas and lakes and rivers teeming with fish, the forests with their inexhaustible wealth in wild and timber, the mountains with their bowels swollen with minerals – the whole of this rich and happy land has been for centuries without number, the land of my fathers. This land I received in trust from them, and in trust will pass it to my children, and so on until the world is no more.

I am a Filipino. In my blood runs the immortal seed of heroes – seed that flowered down the centuries in deeds of courage and defiance. In my veins yet pulses the same hot blood that sent Lapulapu to battle against the alien foe, that drove Diego Silang and Dagohoy into rebellion against the foreign oppressor.

That seed is immortal. It is the self-same seed that flowered in the heart of Jose Rizal that morning in Bagumbayan when a volley of shots put an end to all that was mortal of him and made his spirit deathless forever; the same that flowered in the hearts of Bonifacio in Balintawak, of Gregorio del Pilar at Tirad Pass, of Antonio Luna at Calumpit, that bloomed in flowers of frustration in the sad heart of Emilio Aguinaldo at Palanan, and yet burst forth royally again in the proud heart of Manuel L. Quezon when he stood at last on the threshold of ancient Malacanang Palace, in the symbolic act of possession and racial vindication. The seed I bear within me is an immortal seed.

It is the mark of my manhood, the symbol of my dignity as a human being. Like the seeds that were once buried in the tomb of Tutankhamen many thousands of years ago, it shall grow and flower and bear fruit again. It is the insigne of my race, and my generation is but a stage in the unending search of my people for freedom and happiness.

I am a Filipino, child of the marriage of the East and the West. The East, with its languor and mysticism, its passivity and endurance, was my mother, and my sire was the West that came thundering across the seas with the Cross and Sword and the Machine. I am of the East, an eager participant in its struggles for liberation from the imperialist yoke. But I know also that the East must awake from its centuried sleep, shake off the lethargy that has bound its limbs, and start moving where destiny awaits.

For I, too, am of the West, and the vigorous peoples of the West have destroyed forever the peace and quiet that once were ours. I can no longer live, a being apart from those whose world now trembles to the roar of bomb and cannon shot. For no man and no nation is an island, but a part of the main, and there is no longer any East and West – only individuals and nations making those momentous choices that are the hinges upon which history revolves. At the vanguard of progress in this part of the world I stand – a forlorn figure in the eyes of some, but not one defeated and lost. For through the thick, interlacing branches of habit and custom above me I have seen the light of the sun, and I know that it is good. I have seen the light of justice and equality and freedom, my heart has been lifted by the vision of democracy, and I shall not rest until my land and my people shall have been blessed by these, beyond the power of any man or nation to subvert or destroy.

I am a Filipino, and this is my inheritance. What pledge shall I give that I may prove worthy of my inheritance? I shall give the pledge that has come ringing down the corridors of the centuries, and it shall be compounded of the joyous cries of my Malayan forebears when first they saw the contours of this land loom before their eyes, of the battle cries that have resounded in every field of combat from Mactan to Tirad Pass, of the voices of my people when they sing:

"I am a Filipino born to freedom, and I shall not rest until freedom shall have been added unto my inheritance—for myself and my children and my children's children—forever."