JANUARY
Makugihon

FEBRUARY
Mahigugmaon

MARCH
Matinabangon

APRIL
Matinahuron

MAY
Mahapsay og Malimpyo

JUNE
Maabtik og Musunod sa Oksaktong Oras

JULY
Maantigo og Maabilidad

AUGUST
Maginhawahunon para sa Uban

SEPTEMBER
Madaginoton

OCTOBER
Matinud-anon

NOVEMBER
Masaligan

DECEMBER
Maalampuon

4

Zest for Progress
Zeal of Partnership

MATHEMATICS

2ND QUARTER – Module 7

DECIMAL NUMBERS

Name of Learner: _____

Grade & Section: _____

Name of School: _____

Grade 4
Alternative Delivery Mode
Quarter 2 - Module 7: DECIMAL NUMBERS

First Edition, 2020

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After seriously but with enjoyment doing the activities of this module, you are expected to state, perform on how to **visualize decimal numbers** using models like blocks, grids, number lines and money (M4NS-IIi-99) and renames decimal numbers to fractions, and fractions whose denominators are factors 10 and 100 (M4NS-IIi-100).

The goals in Mathematics education is to help you become a critical thinker and a problem solver individual. The activities of this module are written to further improve your critical thinking and problem-solving skills. These acquired skills would soon be applied in your everyday lives.

So, find time to study this module because learning amidst COVID 19 pandemic depends on you.

Good luck, stay safe and God bless.

Visualizing Decimal Numbers Using Models like Blocks, Grids, Number Lines and Money and Renames decimal numbers to fractions, and fractions whose denominators are factors 10 and 100

A. Activity 1. Visualizing decimal numbers

This is a number line. It is divided into ten equal parts. It shows the fraction and its equivalent decimal number.

(Fraction)

$$\frac{0}{10} \quad \frac{1}{10} \quad \frac{2}{10} \quad \frac{3}{10} \quad \frac{4}{10} \quad \frac{5}{10} \quad \frac{6}{10} \quad \frac{7}{10} \quad \frac{8}{10} \quad \frac{9}{10} \quad \frac{10}{10}$$

0   0.1   0.2   0.3   0.4   0.5   0.6   0.7   0.8   0.9   1.00
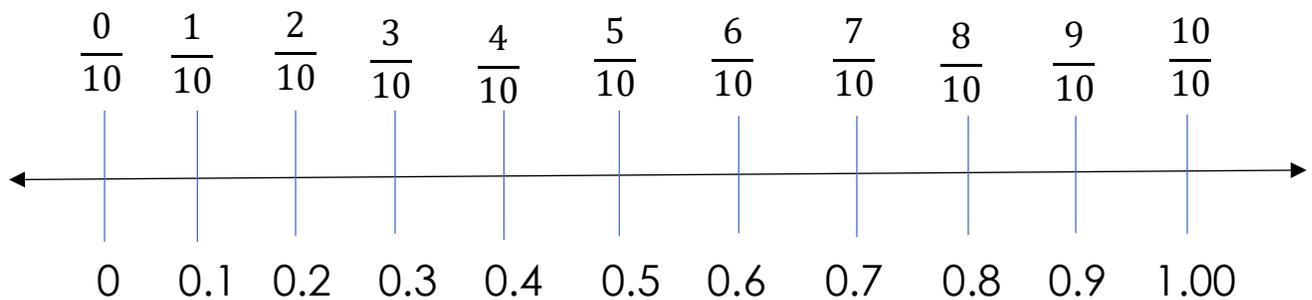
(Decimal)

These fractions and decimals are less than 1. Ten tenths or $\frac{10}{10}$ is equal to 1.

When the numerator and the denominator of a fraction are the same, it is equal to 1.

A. Complete the table

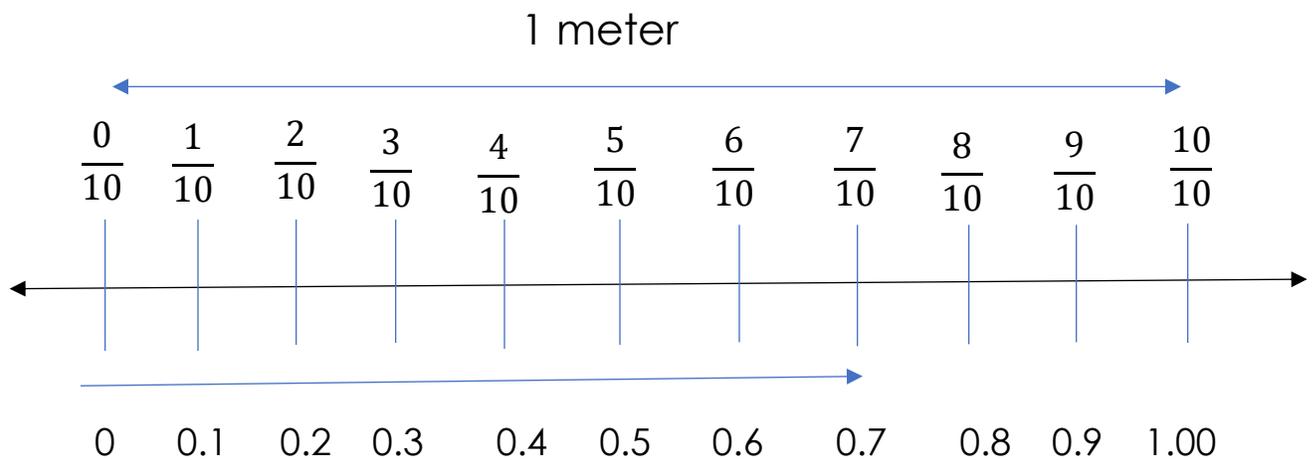| Word name	Fraction	Decimal	Visual Representation
a. five tenths	$\dfrac{5}{10}$	0.5	 $\frac{0}{10}$ $\frac{1}{10}$ $\frac{2}{10}$ $\frac{3}{10}$ $\frac{4}{10}$ $\frac{5}{10}$ $\frac{6}{10}$ $\frac{7}{10}$ $\frac{8}{10}$ $\frac{9}{10}$ $\frac{10}{10}$ 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.00
b. two tenth	$\dfrac{2}{10}$	0.2	
c. six tenth			

HOME FOR SALE

Activity 2.   **Renames decimal numbers to fractions**

(Fraction)

1 meter

$\dfrac{0}{10}$ $\dfrac{1}{10}$ $\dfrac{2}{10}$ $\dfrac{3}{10}$ $\dfrac{4}{10}$ $\dfrac{5}{10}$ $\dfrac{6}{10}$ $\dfrac{7}{10}$ $\dfrac{8}{10}$ $\dfrac{9}{10}$ $\dfrac{10}{10}$

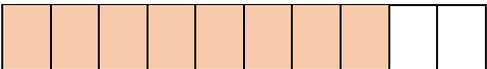0   0.1   0.2   0.3   0.4   0.5   0.6   0.7   0.8   0.9   1.00

(Decimal)

The arrow length seven tenths of a meter.

Seven tenths in fraction form is $\frac{7}{10}$

$\frac{7}{10}$ is equal to 0.7 in decimal form

Complete the table.

Illustration	We say	Fraction	Decimal
1.	four tenths	$\frac{4}{10}$	0.4
2.	eight tenths	$\frac{8}{10}$	0.8
3.	six tenths		

What's More (Pagyamanin

A **decimal** is used to represent a number that is less than 1. It is written to the right of the
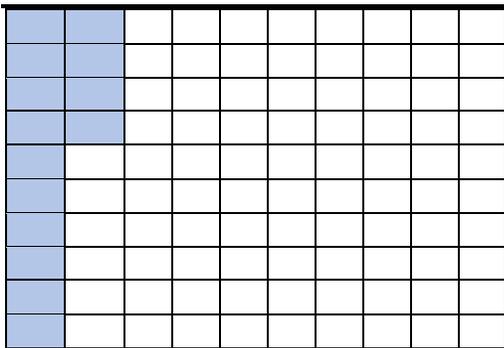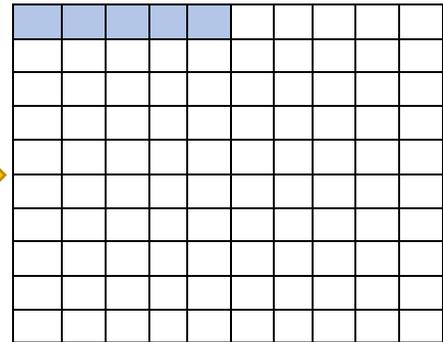
units digit separated by a period called the **decimal point**.

This is a 10 x 10 flat. Each flat ☐ is $\frac{1}{100}$ or 0.01.

Look at the flat. How many little are shaded?

There are 5 shaded out of 100.

This is 5 or 0.05.
100

What part of the whole is shaded? There are 14 out 0f 100. This is $\frac{14}{100}$ or 0.14. We read 0.14 as

"fourteen hundredths" . It is in decimal form. They mean the same as part of 1 whole.

What part of the whole is shaded?

There are six ☐ out of 10 ☐.
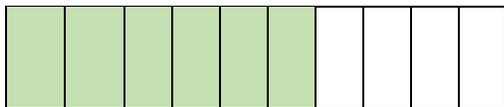
These is $\frac{6}{10}$ or 0.6. We read 0.6 as

We read 0.6 as "six-tenths". It is in decimal form. They mean as part of 1 whole.

We see:

We read: Twenty pesos and twenty- five centavos

We write: P20.25

We see:

We read: Fifty one pesos and twenty-five centavos

We write: P51.25

Notice that the denominator 10 has one zero. The number of zeros in the denominator is equal to the number of decimal places after the decimal point in a decimal number.

Example:

1. $\dfrac{5}{10} = 0.5$ 2. $\dfrac{6}{10} = 0.6$

The denominator has 2 zeros. It tells us that there are 2 digits after the decimal point in the decimal number.

Zero is a place holder for tenths in 0.08.

Zero is a place holder for tenths in 0.09.

3. $\dfrac{35}{100} = 0.35$ 4. $\dfrac{8}{100} = 0.08$

5. $\dfrac{9}{100} = 0.09$ 6. $\dfrac{26}{100} =$

Post Assessment

A. Give the fraction and decimal number represented in each item.

Visual Models	Fraction	Decimals
1.		
2.		
3.		
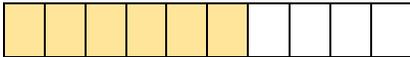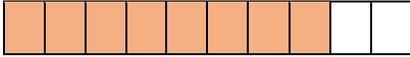
B. Write these money as decimal number and words.

We see	We write	We read
1.		
2.		

C. Rename the decimal numbers as a fraction.

1. 0.15   =   _____

2. 0.37   =   _____

3. 0.5   =   _____

4. 1.38   =   _____

5. 0.4   =   _____

A. Give the fraction and decimal number represented in each item.

	Fraction	Decimals
1.	$\frac{6}{10}$	0.6
2.	$\frac{8}{10}$	0.8
3.	$\frac{4}{10}$	0.4

B. Write these money as decimal number and words.

	We Write	We Read
1.	P50.00	Fifty pesos
2.	P1.25	One peso and twenty-five centavos

C. Rename the decimal numbers as a fraction

1. $\frac{15}{100}$ 3. $\frac{5}{10}$ 4. $\frac{138}{100}$

2. $\frac{37}{100}$ 5. $\frac{4}{10}$

Reference:

Ofelia G. Chingcuangco, M.A. Ed, Soaring High with MATHEMATICS 4
(Textbook page: 156-161)
ISBN:978-971-625-389 – 4
Philippine Copyright, 2019

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."