JANUARY
Makugihon

FEBRUARY
Mahigugmaon

MARCH
Matinabangon

APRIL
Matinahuron

MAY
Mahapsay og Malinyo

JUNE
Maabtik og Musunod sa Ihsaktong Oras

JULY
Mauntigo og Maabilidad

AUGUST
Maginhunahunaon para sa Uban

SEPTEMBER
Madaginoton

OCTOBER
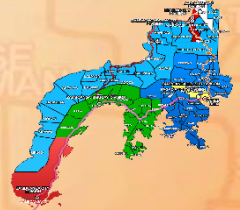Matinud-anon

NOVEMBER
Masaligan

DECEMBER
Maalampuon

Republic of the Philippines

Department of Education

Regional Office IX, Zamboanga Peninsula

*Z*est for *P*rogress
*Z*eal of *P*artnership

5

MATHEMATICS

2ND QUARTER – Module 6:

DIVISION OF DECIMALS

Name of Learner: _____

Grade & Section: _____

Name of School: _____

Mathematics- Grade 5
Alternative Delivery Mode
Quarter 2 - Module 6: Division of Decimals
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Development Team of the Module
Writer: Realiza O. Lecias
Editor: Agustina P. Magalso
Reviewer: Ismael K. Yusoph
Management Team: SDS: Ma. Liza R. Tabilon
ASDS: Judith V. Romaguera
OIC-ASDS: Ma. Judelyn J. Ramos
OIC-ASDS: Armando P. Gumapon
CID Chief: Lilia E. Abello
LR: Evelyn C. Labad
PSDS: Reynaldo S. Alacala
Principal: Amelita G. Sappal

What I Need to Know

After surpassingly doing the activities of this module, you are expected to solve number problems involving finding the quotient of the given decimals up to two decimal places. **(M5NS-IIf-116.1, M5NS-IIf-116.2)**

The goal in Mathematics education is to help and provide you learning experiences that will encourage you to expect and achieve more in this area. The activities of this module are written to further improve your critical thinking, recognize and represent decimals in various forms and context. These acquired skills would soon make a difference in your learning which is essential in your development towards becoming young responsible citizens.

So, find time to study this module and let's build a responsible mathematical community amidst COVID-19 pandemic.

We are with you every step of the way. Good luck, stay safe and God bless

Lesson

DIVIDING DECIMALS UP TO TWO DECIMAL PLACES

What's In

In your previous Math, you were able to find quotient up to 1 decimal place. Can you still remember on how to do it?

Give a try!

1.) $0.8 \div 0.2 = n$

2.) $0.12 \div 0.3 = n$

3.) $0.56 \div 0.7 = n$

4.) $0.45 \div 0.5 = n$

What's New

Miss Reyes has 0.64 dm of ribbons. She needs 0.04 dm to prepare one certificate. How many certificates can she prepare with the ribbon that she has?

a. What is asked in the problem? _____

b. What are given facts? _____

c. What is the number sentence? _____

d. Perform the operation. _____

e. What is the answer? _____

What is It

The number of certificatess she can prepare is $0.64 \div 0.04$. But, how do we divide decimal by a decimal?

Since we already know how to divide a whole number, we can make the divisor and the dividend a whole number by multiplying it by a power of 10. As we have learned, the shortcut for this is to move the decimal point as many places to the right as there are zeroes in the power of 10. We show this by means of an arrow.

$$
0.04\overline{)0.64} \longrightarrow 4\overline{)64}
$$

$$
\begin{array}{r}
18 \\
4\overline{)64} \\
\underline{4} \\
24 \\
\underline{24} \\
0
\end{array}
$$

Miss Reyes can prepare 18 certificates with a ribbon of that size.

- Multiply both the divisor and the dividend by 100 or power of 10. Using shortcut, shows by means of an arrows.
- Divide as in dividing whole numbers.

What's More

Activity 1

Move the decimal to the right

1.) $0.08\sqrt{0.56}$ $\longrightarrow$ $8\sqrt{16}$ answer 7

2.) $0.12\sqrt{0.36}$ $\longrightarrow$ $12\sqrt{36}$ answer 3

3.) $0.06\sqrt{0.48}$ $\longrightarrow$ $6\sqrt{48}$ answer 8

4.) $0.2\sqrt{2.4}$ $\longrightarrow$ $2\sqrt{24}$ answer 12

5.) $0.15\sqrt{0.75}$ $\longrightarrow$ $0.15\sqrt{75}$ answer 5

Assessment 1

Divide: Show how the decimal point is moved in the divisor and the dividend. Check by multiplying.

1.) $0.07\sqrt{0.35}$ 2.) $0.4\sqrt{0.8}$ 3.) $0.05\sqrt{0.95}$

4.) $0.6\sqrt{2.4}$ 5.) $0.2\sqrt{0.6}$

Activity 2

Dividing decimals mentally.

1.) $3.5 \div 0.7 = n$ $\longrightarrow$ $35 \div 7 = 5$

2.) $0.25 \div 0.05 = n$ $\longrightarrow$ $25 \div 5 = 5$

3.) $0.14 \div 0.02 = n$ $\longrightarrow$ $14 \div 2 = 7$

4.) $5.4 \div 0.9 = n$ $\longrightarrow$ $54 \div 9 = 6$

5.) $7.2 \div .0.8 = n$ $\longrightarrow$ $72 \div 8 = 9$

Assessment 2

Divide Mentally.

1. $7.2 \div 0.9 =$

2. $4.9 \div 0.7 =$

3. $0.75 \div 0.15 =$

4. $0.20 \div 0.05 =$

5. $0.32 \div 0.04 =$

Activity 3

Problem Solving

1. Muadz used 0.72 m of bamboo to repair 0.9 m poles. How much poles were he repaired?
    Answer: $0.72 \div 0.9 = n$
    $\qquad 72 \div 9 = 8$

    Muadz was able to repair 8 poles.

2. Mrs. Muloc had 0.81 meters of gold ribbon which she cut into pieces. If each piece measured 0.09 meters how many pieces of ribbon were cut?
    Answer: $0.81 \div 0.09 = n$
    $\qquad 81 \div 9 = 9$
    Mrs. Muloc was able to cut 9 pieces of ribbon.

What I Have Learned

When dividing decimals by decimals, you change the divisor to a whole number. To do this, multiply both the divisor and the dividend by a power of 10. Then divide as with whole numbers.

Note: When multiplying by powers of ten, move the decimal to the right as many as the numbers of zeros in the power of ten.
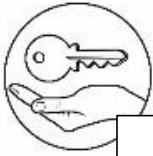
What I Can Do

Solve!

1. A pharmacist is filling a prescription that call for 0.20 gram of vitamin. The vitamin is only available in 0.05 gram tablets. How many tablets should he put in the container?_____

2. Allen bought a piece of rattan stick 0.80-meter-long for her project. She cut it into pieces of 0.4 meter each. How many pieces did she make?_____

3. A farmer bought 0.42m long of rope to tie for his sticks 0.06m. How many sticks can he tie? _____

Assessment

Direction: Encircle the letter of the correct answer.

1. Divide 0.6 ÷ 0.2 = N
   A. 0.4   B. 30   C. 4   D. 3

2. Divide 0.63 ÷ 0.9 = N
   A. 0.07   B. 7   C.70   D.77

3. A store owner has 0 .95 ml. of juice in a small jar. If she puts the juice into a 0.05 ml. bot. How much ml. juice will each jar contain?
   A.0.019   B.0.19   C. 19   D.190

4. What was the quotient when 0.55 was divided by 0.05?
   A. 11   B.10   C.1   D.0.1

5. A. 0.60 sack of fertilizer was used   equally at 0.12 sack per field. How many fields were covered?
   A. 0.05   B. 0.5   C.5   D.50

6. Mrs. Hulmah bought 2.5 kg of sugar for P45.50. How much did a kilo of sugar cost?
   A. 1820   B. 182   C.18.2   D.1.82

7. What was the quotient when 1.6 was divided by0.4?
   A.4   B. 40   C. 400   D.401

8. Divide 0.86 ÷ 02 = N
   A. 43   B. 45   C. 47   D. 53

9. 1.6 ÷ 0.2 = N
   A. 0.8   B.8   C.80   D.88

10. Abdul bought a piece rope of 2.8 m long. He cut it into pieces of 0.4m each. How many pieces did he make?
   A. 70   B.27   C.17   D.7

Answer Key

Pretest

1.	D	6.	C
2.	B	7.	B
3.	C	8.	A
4.	A	9.	B
5.	C	10.	D

What's New

a. Number of Certificates
b. 0.64 dm of ribbons
c. $N = 0.64 \div 0.04$
   0.04 dm in every certificate
d.

$$0.04 \overline{)0.64} \quad \rightarrow \quad 4 \overline{)64}$$

```
      16
   4 / 64
     -4
      24
      24
       0
```

e. 16

Assessment 1

1.) 5   2.) 2   3.) 19   4.) 4   5.) 3

Assessment 2

1.) $7.2 \div 0.9 = 8$
2.) $4.9 \div 0.7 = 7$
3.) $0.65 \div 0.15 = 5$
4.) $0.20 \div 0.05 = 4$
5.) $0.32 \div 0.04 = 8$

What I Can Do

1.) 4
2.) 2
3.) 7

REFERENCES

www.mathisfun.com

www.mathwords.com

lesson guides in Elementary Mathematics Grade V