# Μ Α Τ Η Ε Μ Α Τ С S 5

### Modified In-School Off-School Approach Modules (MISOSA) Distance Education for Elementary Schools SELF-INSTRUCTIONAL MATERIALS



## DIVISION OF DECIMAL BY WHOLE NUMBER



Department of Education BUREAU OF ELEMENTARY EDUCATION 2nd Floor Bonifacio Building DepEd Complex, Meralco Avenue Pasig City

#### **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).

Section 9 of Presidential Decree No. 49 provides:

#### "No copyright shall subsist in any work of the Government of the Republic of the Philippines. However, prior approval of the government agency or office wherein the work is created shall be necessary for exploitation of such work for profit."

This material was originally produced by the Bureau of Elementary Education of the Department of Education, Republic of the Philippines.

This edition has been revised with permission for online distribution through the Learning Resource Management Development System (LRMDS) Portal (http://Irmds.deped.gov.ph/) under Project STRIVE for BESRA, a project supported by AusAID.



#### **DIVISION OF DECIMAL BY WHOLE NUMBER**

**Objective:** Divide decimals by whole number



A. Copy and multiply.

| 1) | 4.761         | 2) 0.81       | 3) 5.134      |
|----|---------------|---------------|---------------|
| -  | <u>x 3.21</u> | <u>x 0.96</u> | <u>x 0.25</u> |

- B. Solve these problems.
  - 1. It rained 1.75 centimetres in one hour. How much rain fell in 0.6 of that hour?
  - 2. Allan worked 6.5 hours in a day. If he earns ₱50.00 an hour, how much will Allan earn?
  - 3. Each sheet of paper is 0.0025 cm thick. How thick is a stack of 50 sheets?
  - 4. A piece of wood is 0.5 cm thick. How thick is a piece of wire 0.5 cm as thick?





Study and Learn



Tony drove his car for 8 hours. It traveled a distance of 653.6 kilometres. How far did it travel in 1 hour?

Let's analyze the problem.

- What is asked in the problem?
- What are the given facts?
- What operation should be used?

Divide decimals as you divide whole

What is the number sentence?

Let's solve the problem.

numbers.
Put the decimal point in the quotient directly above the decimal point of the dividend.

 Check by multiplying the quotient and the divisor.

Checking:

- $81.7 \leftarrow \text{quotient}$
- $\underline{x \ 8} \leftarrow \text{divisor}$
- $653.6 \leftarrow dividend$

Let's have another example.

A case of 12 bottles of juice contains a total of 16.32 litres. How much does each bottle hold?

| $\frac{1.36}{1000000000000000000000000000000000000$                 | Check:  |  |
|---|---|--|
| 12)16.32<br><u>-12</u><br>43<br><u>-36</u><br>72<br><u>-72</u><br>× | 1.36<br><u>x 12</u><br>272<br><u>136</u><br>16.32 |  |
|   |   |  |







Copy, solve and check.

- 1) 8)0.52 4) 14)37.24
- 2) 9)121.23 5) 26)135.2
- 3) 4)14.668



In dividing decimals by whole numbers:

- Divide as you would divide whole numbers.
- Put the decimal point in the quotient directly above the decimal point of the dividend.
- Check by multiplication.





Divide and check.



Check your answer with the answer key. If you get...

- 4-5 Excellent! You may now proceed to the next lesson.
- 3 You need to review the processes you missed.
- 0-2 You need to repeat the whole process. Ask your teacher or elder to help you.





#### Key to Correction DIVISION OF DECIMALS

REVIEW

Α.

- 1) 15.28281
- 2) 0.7776
- 3) 1.2835

В.

- 1) 1.05 cm
- 2) <del>P</del>325
- 3) 0.125 cm
- 4) 0.25 cm

TRY THESE

- 1) 0.44
- 2) 13.47
- 3) 3.667
- 4) 2.66
- 5) 5.2

ON YOUR OWN

- 1) 23.4
- 2) 1.235
- 3) 6.25
- 4) 7.77
- 5) 26.4

