

**M
A
T
H
E
M
A
T
I
C
S

4**

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



**WORD PROBLEMS INVOLVING
EITHER ADDITION OR
SUBTRACTION OF DECIMALS**



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://lrmds.deped.gov.ph/>) under Project STRIVE for BESRA, a project supported by AusAID.



ANALYZING 2-STEP WORD PROBLEMS INVOLVING ADDITION AND SUBTRACTION OF DECIMALS

Objectives: Analyze one to two-step word problems including addition and subtraction of decimals including money.
Transform one to two-step word problems including addition and subtraction of decimals into a number sentence.



Add.

$$\begin{array}{r} 1) \quad 6.35 \\ + 7.87 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 3.05 \\ + 12.51 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 63.04 \\ + 28.67 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 21.78 \\ + 38.62 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 21.02 \\ + 39.78 \\ \hline \end{array}$$

Subtract.

$$\begin{array}{r} 1) \quad 7.87 \\ - 6.34 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 3.89 \\ - 2.67 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 4.57 \\ - 2.68 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 38.62 \\ - 21.78 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 59.78 \\ - 21.29 \\ \hline \end{array}$$

Check your answer using the answer key. If your score is 9 or 10, you may proceed to this module. If you get 8 correct answers or below, review your lessons in addition and subtraction of decimals.





Study and Learn

Read the problem carefully. Below it are guide questions to help you analyze the problem.

Bernie saved ₱ 17.00 from his allowance last week and ₱ 9.50 this week. If he used ₱ 7.25 for buying a ballpen, how much money would he have left?

What is asked?

money left to Bernie

What are the given facts?

₱17.00, ₱9.50 and ₱ 7.25

What is the hidden question?

the total savings of Bernie

What are the operations to be used?

addition and subtraction

What is the mathematical sentence?

$(₱17.00 + ₱9.50) - ₱ 7.25 = n$

Can you now solve math problems which involve addition and subtraction of decimals? Do the next activities to test the skills you have learned.





Choose the letter of the correct answer.

Romy bought a glass of buko juice for ₱ 10.00 and a banana cue for ₱ 7.50. How much was his change if he gave ₱ 50.00?

- _____ 1. What is asked in the problem?
- Romy's change from his ₱50.00
 - total cost of buko juice and banana cue
 - amount he had
 - amount of money given to him
- _____ 2. What are the processes to be used to solve the problem?
- addition and division
 - addition and multiplication
 - addition and subtraction
 - subtraction and division
- _____ 3. What is the hidden question?
- How much money did he pay in all?
 - How much change did he receive?
 - How much does he have in his pocket?
 - How much money did he save?
- _____ 4. What is the mathematical sentence?
- $₱ 50.00 \div (₱ 10.00 + ₱ 7.50) = n$
 - $₱ 50.00 \times (₱ 10.00 + ₱ 7.50) = n$
 - $₱ 50.00 - (₱ 10.00 + ₱ 7.50) = n$
 - $₱ 50.00 + (₱ 10.00 + ₱ 7.50) = n$



Wrap Up

Before solving a 1 to 2-step word problem, analyze and understand the problem. Follow the guide questions below.

1. What is asked?
2. What are the given facts?
3. What is the hidden question?
4. What are the processes to be used?
5. What is the mathematical sentence?



On Your Own

A. Analyze the problem and answer the questions that follow.

Mr. Venturenza bought a pair of leather slippers for ₱ 150.95 and a set of hankies for ₱ 29.75. How much change did he receive from his ₱ 500 – peso bill?

- a. What is asked in the problem?
- b. What are the given facts?
- c. What is the hidden question?
- d. What operations will be used?
- e. What is the mathematical sentence?



B. Select the best answer and write only the letters.

For his project, Bill will need ₱ 38.50 for batteries and ₱ 16.75 for a small bulb. He has already saved ₱ 36.75, how much more does he need?

- _____ 1. What is asked in the problem?
- the money to be spent
 - the change he will receive
 - the total amount of materials to be bought
 - the amount of money he still needs
- _____ 2. What are the facts given in the problem?
- batteries and bulb
 - batteries at ₱ 16.25 each
 - bulbs for the flashlight
 - ₱ 38.50, ₱ 16.75, and ₱ 36.75
- _____ 3. What is the hidden question?
- How much will he spend on the materials to be bought?
 - How much will the change be?
 - How many items will he buy?
 - How much is his money?
- _____ 4. What is the mathematical sentence?
- $(₱ 38.50 - ₱ 16.75) + ₱ 36.75 = n$
 - $(₱ 38.50 - (₱ 36.75 - ₱ 16.75)) = n$
 - $(₱ 38.50 + ₱ 16.75) - ₱ 36.75 = n$
 - $₱ 38.50 + (₱ 36.75 - ₱ 16.75) = n$

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

7-9 - *Excellent! You may now proceed to the next lesson.*

5-6 - *You need to review the processes you missed.*

0-4 - *You need to repeat the whole process.
Ask your teacher or elder to help you.*

