MATHEMATICS 4

Modified In-School Off-School Approach Modules (MISOSA)

Distance Education for Elementary Schools

SELF-INSTRUCTIONAL MATERIALS

ANALYZING ONE-STEP WORD PROBLEMS INVOLVING ADDITION OR SUBTRACTION OF DECIMALS

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ANALYZING ONE-STEP WORD PROBLEMS INVOLVING ADDITION OR SUBTRACTION OF DECIMALS

Objectives: Analyze one-step word problems involving either addition or subtraction of decimals including money through

a. Telling what is asked, the given facts and correct operation to be used
b. Transforming the word problem into a number sentence

Perform the indicated operations in your notebook.

1)
$$\begin{array}{r} 634.74 \\ 28.03 \\ +\ 172.5 \\ \hline \end{array}$$

2)
$$\begin{array}{r} 97.09 \\ 146.7 \\ +\ 375.136 \\ \hline \end{array}$$

3)
$$\begin{array}{r} 215.15 \\ 71.28 \\ +\ 27.53 \\ \hline \end{array}$$

4)
$$\begin{array}{r} 127.8 \\ -\ 53.47 \\ \hline \end{array}$$

5)
$$\begin{array}{r} 42.56 \\ -\ 18.9 \\ \hline \end{array}$$

Use the answer key to check your answer. If you have a score of 4 or 5, continue with this module. If not, review your past lessons.

Study and Learn

Let's read and answer the problem.

> Luz bought a cartolina worth ₱8.75 and colored papers at ₱24.50. How much did she pay for these items?

Answer the following questions:

- Who bought the cartolina and colored papers?
  Luz bought them
- Where do you think she will use these things?
  In her assignment/project
- If you buy something from the store, what do you ask for?
  ask for a receipt
- What do you call ₱8.75 and ₱ 24.50?
  cost of the materials bought
- If you were Luz and you still have extra money, would you still buy other things beside the items bought? Why?
  No, because it is not wise to buy things unplanned or not needed

Looking back at the problem above, you should be guided by some questions before you solve the problem, namely:

1. What is asked?
2. What are given?
3. What operation to be used?
4. What is the mathematical sentence?

Furthermore, complete the following questions when you analyze the problem.

1. The problem asks for _____.
2. The given facts are _____.
3. The operation to be used is _____.
4. The mathematical sentence is _____.

As for the problem analyzed above, how many operations are involved?

one only

Therefore, the problem is a one-step problem.

Try These

Analyze each problem by using the guide questions below. Answer in your notebook.

- What is asked?
- What are the given data?
- What operation will you use?
- What is the mathematical sentence?

1. John swam a distance of 0.4 km. Daniel swam a distance of 0.62 km. How much farther did Daniel swim than John?

2. Henry weighs 48.2 kilograms, while his friend Carlos weighs 50.5 kilograms. What is the total weight of the two boys?

Wrap Up

In analyzing 1-step word problems involving either addition or subtraction of decimals, follow the steps below.

1. Know what is asked.
2. Know the given facts.
3. Determine the process to be used.
4. Write the mathematical sentence.

On Your Own

For each problem, answer the guide questions below. Do this on your paper.

1. Atty. Sison paid ₱450.00 for a pair of shoes and ₱375.50 for a shirt. How much did he pay in all?

2. Shaira ran a 100-meter dash in 15.3 seconds, then for the second time, it took her 11.50 seconds. How many seconds less was the second recorded time than the first one?

   Guide Questions

   a. What is asked in the problem?
   b. What are given?
   c. What is the process to be used?
   d. What is the mathematical sentence?

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

7-8 - 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.