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



**ADDITION AND SUBTRAC-
TION OF DECIMALS UP TO
THE HUNDREDTHS PLACE**



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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).

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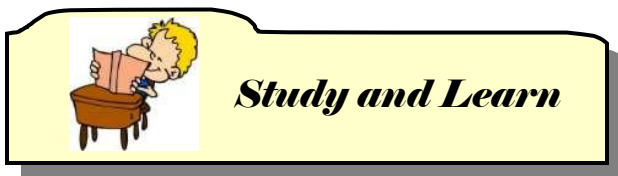
ADDITION AND SUBTRACTION OF DECIMALS UP TO THE HUNDREDTHS PLACE

Objective: Add and subtract decimals up to the hundredths place without and with regrouping



Write the correct decimal number for each.

- 1)
- 2)
- 3)
- 4)
- 5)



Mercedes Anne was asked by her mother to go to the market to buy 0.75 kg of pork and 0.5 kg of fish. How many kilograms of pork and fish did she buy?





Let's solve the problem following the steps below.

1 Write the decimals in column. Align the decimal points. Use zero as a place holder.

$$\begin{array}{r} 0.50 \\ + 0.75 \\ \hline \end{array}$$

← Use zero to fill up empty spaces

2 Add the digits in the hundredths place. Regroup if necessary.

$$\begin{array}{r} 0.50 \\ + 0.75 \\ \hline 5 \end{array}$$

3 Add the digits in the tenths place. Regroup if necessary.

$$\begin{array}{r} 0.50 \\ + 0.75 \\ \hline 25 \end{array}$$

4 Add the ones. Place the decimal point in the sum below the decimal points of the addends.

$$\begin{array}{r} 0.50 \\ + 0.75 \\ \hline 1.25 \end{array}$$

Mercedes Anne bought 1.25 kilograms of pork and fish.

Look at the other examples below.

a. $0.34 + 0.16 + 0.2 = N$

$$\begin{array}{r} 0.34 \\ 0.16 \\ + 0.20 \\ \hline 0.70 \end{array}$$

← Place a zero.

b. $0.39 + 0.28 + 0.64 = N$

$$\begin{array}{r} 0.39 \\ 0.28 \\ + 0.64 \\ \hline 1.31 \end{array}$$

← Place a zero.

Here's another problem.

How much heavier is the pork than the fish that Melissa bought?

What operation shall we use to find the answer?





Let's solve for the answer step by step.

1 Write the decimals in column. Align the decimal points. Use zero as a place holder when needed.

$$\begin{array}{r} 0.75 \\ - 0.50 \\ \hline \end{array} \leftarrow \text{Place a zero.}$$

2 Subtract the digits in the hundredths place. Regroup if necessary.

$$\begin{array}{r} 0.75 \\ - 0.50 \\ \hline 5 \end{array}$$

3 Subtract the digits in the tenths place. Regroup if necessary.

$$\begin{array}{r} 0.75 \\ - 0.50 \\ \hline 25 \end{array}$$

4 Place the decimal point to the difference directly below the decimal points of the minuend and subtrahend.

$$\begin{array}{r} 0.75 \\ + 0.50 \\ \hline 0.25 \end{array}$$

So, pork is 0.25 kg heavier than fish.

Here are other examples. Study them carefully.

$$\begin{array}{r} 8 \ 12 \\ / 0.92 \\ - 0.63 \\ \hline 0.29 \end{array}$$

$$\begin{array}{r} 3 \ 15 \\ 0.45 \\ - 0.26 \\ \hline 0.19 \end{array}$$

$$\begin{array}{r} 2 \ 12 \\ 0.32 \\ - 0.16 \\ \hline 0.16 \end{array}$$



A. Write the missing numbers.

$$\begin{array}{r} 1) \quad 0.25 \\ \quad + 0.34 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 0.37 \\ \quad - 0.22 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 0.45 \\ \quad + 0.83 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad \boxed{} \\ \quad - 0.27 \\ \hline 0.62 \end{array}$$

$$\begin{array}{r} 5) \quad \boxed{} \\ \quad + 0.43 \\ \hline 0.92 \end{array}$$





B. Solve for the answer.

- 1) What must be added to 0.37 to get a sum of 0.92?
- 2) What is 0.70 less 0.27?
- 3) What is 0.24 more than 0.79?



Wrap Up

To add or subtract decimals, follow these steps:

- Arrange the numbers in column with the decimal points aligned. Use zeros as placeholders when needed.
- Add or subtract as whole numbers.
- Place a decimal point in the answer. It should be in line with the decimal points of the addend or of the minuend and subtrahend.



On Your Own

A. Solve.

- 1) 0.24 more than 0.69
- 2) 0.82 less 0.29
- 3) difference between 0.68 and 0.02
- 4) sum of 0.42, 0.10 and 0.58
- 5)
$$\begin{array}{r} 0.91 \\ - 0.32 \\ \hline \end{array}$$
- 6)
$$\begin{array}{r} 0.47 \\ - 0.28 \\ \hline \end{array}$$
- 7)
$$\begin{array}{r} 0.77 \\ - 0.27 \\ \hline \end{array}$$
- 8)
$$\begin{array}{r} 0.24 \\ - 0.16 \\ \hline \end{array}$$





B. Read the problem then find the answer.

- 1) Me-anne has 0.9 metre of cloth. She used 0.5 metre for her project. How much cloth was left unused?
- 2) Freddie consumed 0.55 litre of gasoline in the morning and 0.75 litre in the afternoon. How much gasoline did he consume the whole day?

Check your answer with the answer key.

If you get...

8-10 Excellent! You may now proceed to the next lesson.

5-7 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.





Key to Correction

ADDITION AND SUBTRACTION OF DECIMALS UP TO THE HUNDREDTHS PLACE

REVIEW

- 1) 0.83
- 2) 0.47
- 3) 0.28
- 4) 0.32
- 5) 0.65

TRY THESE

A.

- 1) 0.59
- 2) 0.15
- 3) 1.28
- 4) 0.96
- 5) 0.49

B.

- 1) 0.55
- 2) 0.43
- 3) 1.03

ON YOUR OWN

A.

- 1) 0.93
- 2) 0.53
- 3) 0.66
- 4) 1.10
- 5) 0.59
- 6) 0.19
- 7) 0.50
- 8) 0.08

B.

- 1) 0.4 metre of cloth
- 2) 1.3 litres of gasoline

