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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 IN THE THOUSANDTHS PLACE WITH REGROUPING



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## ADDITION AND SUBTRACTION OF DECIMALS IN THE THOUSANDTHS PLACE WITH REGROUPING

**Objective:** Add and subtract decimals in the thousandths place with regrouping



Do as indicated.

- 1) 0.278 + 0.32 + 0.101
- 2) 0.834 0.212
- 3) 0.431 + 0.425 + 0.14
- 4) 0.674 0.313
- 5) 0.352 + 0.213 + 0.134



There are 2 bottles of milk in the refrigerator. If we are to combine the contents of the 2 bottles in a container, how much milk will there be in all?



To find the total amount of milk in the 2 bottles, we add the 2 amounts. We add 0.625 + 0.29.

Let's solve this step by step.







2	Subtract as you would subtract whole numbers. Regroup if necessary.	0.625 <u>+ 0.290</u> 0 915
3	Place the decimal point in the sum. Align this with the decimal points of the addends.	0.625 <u>+ 0.290</u> 0.915

The total amount of milk in the 2 bottles is 0.915 litres.

Let's have some more examples.

1) 0.934 + 0.38 = n



2) 0.562 + 0.237 + 0.36 = n



Look at the 2 bottles of milk again. How much milk does bottle A contain? How about bottle B? How much more milk than bottle B does bottle A contain?

To solve this, we subtract the amount of milk in bottle B from that of bottle A. Thus we subtract 0.29 from 0.625.

Let's solve.



Write the numbers in a column.Make0.625sure to align the decimal points.Use a- 0.290placeholder when needed.- 0.290





2	Subtract as you would subtract whole numbers. Regroup if necessary.	<sup>5 12</sup> 0.625 <u>- 0.290</u> 0 335
3	Place the decimal point exactly below the other decimal points.	5 12 0 <b>62</b> 5 - 0.290 0.335

Bottle A has 0.335 litres more milk than bottle B.

Below are other examples for you to study.

0.790 Use 0 as placeholder - <u>0.365</u> 0.425

2) 0.634 - 0.27



A. Find the sums by adding across, down and diagonally.





B. Subtract. Look for the difference in Column B.



In adding/subtracting decimals with regrouping we...

- write the decimals in a column, aligning the decimal points. Use 0 as place holder when needed.
- add/subtract as you would add/subtract whole numbers. Regroup if necessary.
- place the decimal point in the result aligned with the other decimal points.







Find the sum or difference.

1) 0.657 + 0.28	6) 0.342 + 0.39
2) 0.593 <u>- 0.216</u>	7) 0.257 + 0.369 + 0.27
3) 0.832 + 0.049	8) 0.935 – 0.287
4) 0.433 <u>- 0.129</u>	9) 0.27 + 0.394 + 0.421
5) 0.306 <u>+ 0.118</u>	10) 0.748 – 0.499

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 IN THE THOUSANDTHS PLACE WITH REGROUPING

REVIEW

- 1) 0.699
- 2) 0.622
- 3) 0.996
- 4) 0.361
- 5) 0.699

#### TRY THESE

Α.

	0.45	0.432	0.38	- (1.262
<b>O</b>	0.065	0.361	0.18	- 0.606
	0.23	0.349	0.245	- 0.824
0.971	0.745	1.142	0.805	1.056

- Β.
- 1) d
- 2) a
- 3) e
- 4) b
- 5) c

ON YOUR OWN

- 1) 0.937
- 2) 0.377
- 3) 0.881
- 4) 0.304
- 5) 0.924
- 6) 0.732
- 7) 0.896
- 8) 0.648
- 9) 1.085
- 10) 0.249

