







Mathematics 4 Microlearning Module

QUARTER 1 – Module 13
Adding Numbers and Subtracting
Numbers With and Without
Regrouping





REGION XII - DIVISION OF SULTAN KUDARAT

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Mathematics 4

Microlearning Module (MLM)

Quarter 1 – Module 13: Adding and Subtracting Numbers With and Without

Regrouping

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MICROLEARNING MODULE

Name:		_Grade & Sec	•	Score:	
Subject:	Mathematics	Quarter:	1	MLM No _	13
Teacher:					
	ompetency: Add numbers with sums up to 1 000 000 and subtract numbers where both numbers are less than 1 000 000, with and without regrouping				

A. Look Back!

1. Solve for the actual sum and then the estimated sum by rounding to the nearest ten thousands.

2. Estimate the difference by rounding the number to the nearest ten thousands.

B. What's New?

Read the passage below.

For the month of June, Happy Food Cooperative had a total sales of ₱123,224 for the first week, ₱112,312 for the second week, ₱121,212 for the third week, and ₱320,141for the fourth week. What was the total sale for the four weeks?



C. What Is It?

1. Adding Numbers Without Regrouping

What should we do to solve the problem above?

To find the answer to the problem above, we need to add all the sales for the four weeks. The mathematical sentence is $123\ 224 + 112\ 312 + 121\ 212 + 320\ 141 = n$ where n is the total sales for four weeks.

To find the sum, you must first write the numbers in a column.

Follow the steps by looking at the table below. Let's do it!

Add the	Add the	Add the	Add the	Add the ten	Add the
ones	tens	hundreds	thousands	thousands	hundred
					thousands
123 224	123 224	123 224	123 224	123 224	123 224
112 312	112 312	112 312	112 312	112 312	112 312
121 212	121 212	121 212	121 212	121 212	121 212
+ 320 141	+ 320 141	+ 320 141	+ 320 141	+ 320 141	+ 320 141
9	89	889	6 889	76 889	676 889

The total sales for four weeks are ₱ 676,889.

2. Subtracting Numbers Without Regrouping

Read the following:



Vegetable Store

A local vegetable dealer has a gross income of ₱793,486. They spent only ₱61,154 on their operations. How much is their net income?

We can get the answer by subtraction. In subtracting large numbers without regrouping, we begin at the ones place going to the left.

Study the example that follows:

Write the numbers in column and
1. Subtract the ones place. → Subtract 4 from 6 equals 2
2. Subtract 5 tens from 8 tens → The difference is 3 tens
3. Subtract 1 hundreds from 4 hundreds → Equals 3 hundreds
4. Subtract 1 thousands from 3 thousands — Equals 2 thousands
5. Subtract 6 ten thousands from 9 ten thousands Equals 3 ten thousands
6. Bring down 7 thousands since there is no more to subtract. That is your final answer → ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑
Their net income is ₱732,332

3. Adding Numbers with Regrouping

Below are the monthly sales of Me-anne's Drug Store:

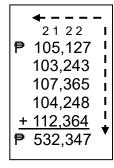
<u>C</u>
Sales
₱ 105,127
103,243
107,365
104,248
112,364

What is the total sales?

Let's solve it. Here's how:

Write the numbers in column and

a. Add the numbers in ones place: 7+3+5+8+4=27, write 7 in ones column and regroup 2 in tens place



- b. Add the numbers in tens place: 2+2+4+6+4+6 = 24, write 4 in the tens column and regroup 2 in hundreds place
- c. Add the numbers in hundreds place: 2+1+2+3+2+3=13, write 3 and regroup 1 in the thousands place
- d. Add the numbers in the thousands place: 1+5+3+7+4+2=22, write 2, and regroup 2 in the ten thousands place
- e. Add the numbers in the ten thousands place: 2+0+0+0+0+3=3, no number to regroup
- f. Add the numbers in the hundred thousands place:

The total sales for 5 months is \$532,347.

4. Subtracting Numbers with Regrouping:

When subtracting numbers, follow these simple steps:

- Step 1. Align the digits properly by writing all the ones, tens, hundreds, and thousands in their respective columns.
- Step 2. Start subtracting from the rightmost place to the leftmost place.
- Step 3. Regroup whenever the digit in the subtrahend is greater than the digit in the minuend.

Read and study the solution to the problem:



Carrots Delivery

A total of 9,547 pieces of carrots were delivered to a store. Early in the morning, 658 pieces were sold. How many pieces of carrots were left unsold?

Solve: 9547 - 658 = n

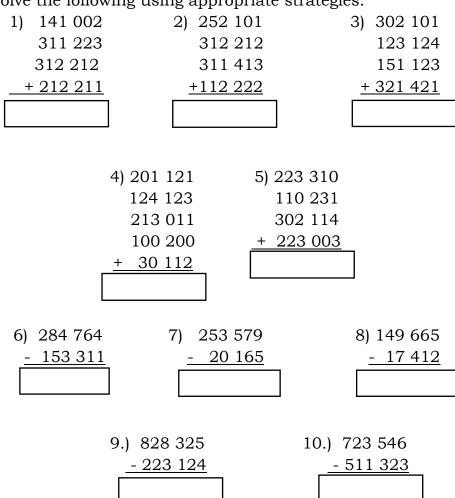
Subtract the	Subtract the	Subtract the	Subtract the
ones. Regroup	tens. Regroup	hundreds.	thousands.
		Regroup	Regroup
3 17 9 5 4 7 - 6 5 8 9	13 4 × 17 9 × × 7 - 6 5 8 8 9	14 13 8 # \$ 17 9 5 # 7 - 6 5 8 8 8 9	14 13 8 * \$17 9 * \$7 - 6 5 8 8 8 8 9

The method above explains how to subtract numbers with regrouping. The minuend is 9 547, and the subtrahend, or the number to be subtracted, is 658. The difference is 8 889.

So, 8 889 pieces of carrots were still not sold yet.

C. Let's try!

Solve the following using appropriate strategies:



Write the digits in column, then solve. 11) 128 435 + 10 932 + 35 812 + 225 173 = _____ 12) 120 147 + 364 172 + 147 261 + 137 481 = _____ 13) 251 112 + 213 123 + 231 321 + 302 140 = 14) 825 432 - 657 323 = _____ 15) 723 546 – 281 289 = _____ Solve the following. 16) 725 685 - ____ = 211 471 17) What is 148 846 increased by 206 409? = _____ 18) Take away 564 210 from 843 421 = _____ 19) Put together: 226 114, 331 021, 110 223 and 220 331 = 20) A number 622 423 added to 324 232 gives a result of D. Let's Evaluate 1) Write the digits in column, then solve. a) 320 112 + 210 312 + 121 221 + 220 223 = ____ b) 221 000 + 242 231 + 202 223 + 112 203 = c) 287 196 - 163 164 = _____ d) 279 654 - 59 431 = _____ e) 151 112 more than the sum of 131 321 and 340 140 = is _____ f) 754 683 reduced by 310 521 = ____ 2) Solve for the answer. g) 142 347 i) 512 245 j) 713 424 h) 243 263 246 102 144 421 - 235 746 - 46 578 101 263 123 261 + 432 103 + 200 121

CHALLENGE

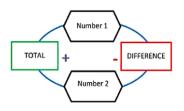
A. Fill in the missing numbers in the puzzles below:

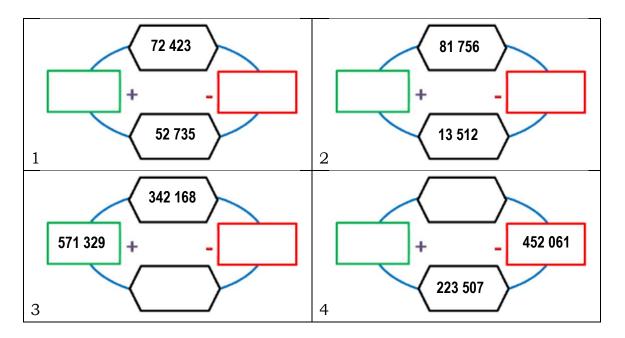
This is how the puzzle works:

To get the total, we add the numbers.

(Number 1 + Number 2)

To get the difference, we subtract the numbers. (Number 1 and Number 2 in any possible order)





B. Study the following table, and answer the questions that follow:

Fruit Sales in Sikat Market (In Kg)		
Mang Juan's Fruit Stall	288 708	
Green Valley Gardens	173 692	
Mt. Matutum Producers	215 311	
Nanay Soleng's Fruit Stand	194 324	

1) How many kilograms were the total sales of the Sikat Market?

2) What is the sum of the highest and lowest sales? _____

3) What is the difference between the highest and the lowest sales?

4) Combine the sales of Mang Juan's Fruit Stall and Green Valley Gardens, then compare it with the total sales of Mt. Matutum Producers and Nanay Soleng's Fruit Stand.
a. Which combination is greater?
b. By how many kilograms is it greater than the other combination?

E. References

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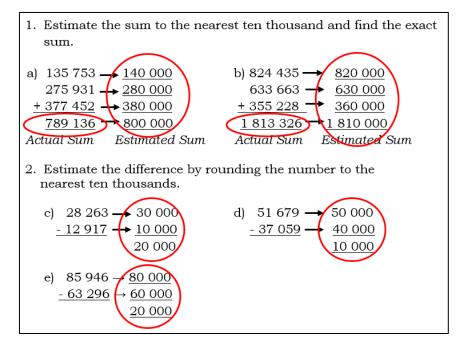
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Math Grade 4 Q1 LC13

ANSWERS KEY

A. Look Back



C. Let's Try!

D. Let's Evaluate!

*Challenge

1.	976 648
2.	987 948
3.	897 769
4.	668 567
5.	858 658
6.	131 453
7.	233 414
8.	132 253
9.	605 201
10.	212 223
11.	400 352
12.	769 061
13.	997 696

14. 168 109

15. 442 257

16. 514 214

17. 355 255

18. 279 211 19. 887 689

946,655

20.

a.	871	868
b.	777	657
c.	535	696
d.	124	032
e.	622	573
f.	444	162
g.	689	833
h.	943	048
i.	465	667
j.	477	678

1.125158(+)19 688(-) 2.95 268 (+) 68 244 (-) 3. 229 161(Number 2) 113 007 (-) 4. 675 568(Number 1) 899 075 (+) В 1.872 035 2.462400 3. 115 016 4. Mang Juan's Fruit Stall and Green Valley Gardens, by 52 765