MATATAG K to 10 Curriculum Weekly Lesson Log	School:	Visit DepEdResources.com for More	Grade Level:	4
	Name of Teacher		Learning Area:	MATHEMATICS
	Teaching Dates and Time:	SEPTEMBER 16 - 20, 2024 (WEEK 8)	Quarter:	First

I. CURRICULUM CONTENT, STANDARDS, AND LESSON COMPETENCIES	
A. Content Standards	The learners demonstrate knowledge and understanding of addition of numbers with sums up to 1 000 000 and subtraction of numbers where both numbers are less than 1 000 000.
B. Performance Standards	By the end of the quarter, the learners are able to perform addition of numbers with sums up to 1 000 000 and subtraction of numbers where both numbers are less than 1 000 000. (NA)
C. Learning Competencies and Objectives	**Learning Competency** 1. Estimate the sum of two 5-digit numbers by rounding the addends largest place value. 2. Understand the concept of rounding and estimating the sum of two 5-digit numbers to the largest place value. 3. Estimate the sum of two 6-digit numbers by rounding the addends largest place value. 4. Familiarize the concept of rounding and estimating the sum of two 5-digit numbers to the largest place value. 5. Estimate the difference of two 5-digit numbers by rounding the given numbers to the largest place value. 6. Understand the concept of rounding and estimating the difference of two 5-digit numbers to the largest place value. 7. Estimate the difference of two 6-digit numbers by rounding the given numbers to the largest place value. 8. Understand the concept of rounding and estimating the difference of two 6-digit numbers to the largest place value. 9. Show mastery in estimating the sum and difference of two 5- to 6-digit numbers by rounding the numbers to the largest place value. 10. Understand the concept of rounding and estimating the sum or difference of 5- to 6-digit numbers.
D. Content	1. Estimating the Sum of Two 5-digit Numbers 2. Estimating the Sum of Two 6-digit Numbers 3. Estimating the Difference of Two 5-digit Numbers 4. Estimating the Difference of Two 6-digit Numbers 5. Estimating the Sum or Difference of Two 5- to 6-digit Numbers
E. Integration	Values of Kindness and Sharing

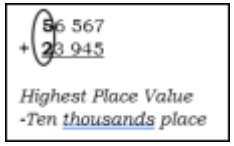
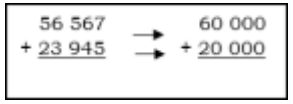
II. LEARNING RESOURCES

Department of Education. "*Matatag K to 10 Curriculum of the K to 12 Program*." Mathematics Grades 1 to 10.
Del Monte, Vanessa Mae A. "*Estimates the Sum of 3 to 4-Digit Addends*." Mathematics 3 ADM Q1 Module 10. Department of Education. First Edition 2020.
Limit, Iren C. "*Estimating the Differences of Two Numbers*." Mathematics 3 ADM Q1 Module 14. Department of Education. First Edition 2020

III. TEACHING AND LEARNING PROCEDURE		NOTES TO TEACHERS
A. Activating Prior Knowledge	**1. Short Review** **DAY 1** Round the following number to the nearest thousands. 1. 3 567 3. 9 427 5. 1 345 2. 7 956 4. 2 563 **DAY 2** Estimate the sum of the given addends. 1. 54 706 → + 12 553 → 2. 24 678 → + 45 765 → 3. 16 765 → + 45 704 → 4. 61 783 → + 20 481 → 5. 27 115 → + 54 456 → **DAY 3** Round the number to the largest place value and estimate the sum. 1. 36 023 → + 10 008 → 2. 386 527 → + 35 106 → 3. 430 154 → + 54 558 → 4. 675 141 → + 181 530 → 5. 288 301 → + 212 636 → **DAY 4** Estimate the difference by rounding the given numbers to the largest place value. 1. 82 309 → - 45 227 → 2. 36 908 → - 20 265 → 3. 67 311 → - 25 809 → 4. 82 005 → - 23 763 → 5. 67 016 → - 16 408 → **DAY 5** Round the given numbers to the highest place value and estimate the difference. 1. 67 345 → - 34 990 → 2. 78 345 → - 15 785 → 3. 45 338 → - 13 931 →	**DAY 1** Have the pupils review the concept of rounding numbers to the nearest thousands as a strategy to quickly estimate the sum of two numbers. **Answer Key:** Activity 1 1. 4 000 4. 3 000 2. 8 000 5. 1 000 3. 9 000 **DAY 2** **Answer Key:** Activity 5 1. 60 000 4. 80 000 2. 70 000 5. 80 000 3. 70 000 **DAY 3** **Answer Key:** Activity 9 1. 50 000 4. 900 000 2. 440 000 5. 500 000 3. 450 000 **DAY 4** **Answer Key:** Activity 13 1. 30 000 4. 60 000 2. 20 000 5. 50 000 3. 40 000 **DAY 5** **Answer Key:** Activity 18

	4. 947 231 → - 356 663 → **2. Feedback (Optional)**	5. 642 765 → - 356 622 →	1. 40 000 4. 500 000 2. 60 000 5. 200 000 3. 400 000

B. Establishing Lesson Purpose	**1. Lesson Purpose** **DAY 1** Provide an overview of the expected outcomes of the lesson. The key objective is to understand the concept of estimating the sum of two 5-digit numbers by rounding the addends to the largest place value **DAY 2** Present the objective of the lesson. The pupils are expected to estimate the sum of two 6-digit numbers by rounding the addends to the largest place value. **DAY 3** Explain that the key objective of the lesson is to learn how to estimate the difference of two 5-digit numbers by rounding the number to the largest place value. **DAY 4** Give an overview of the lesson. Explain to the learners that the process of estimating the difference two 6-digit numbers is the same as the process of estimating 5-digit numbers. **DAY 5** State the objective of the lesson. The learner is expected to estimate the sum and difference of two 5- to 6-digit numbers by rounding the numbers to the largest place value. **2. Unlocking Content Vocabulary** **DAY 1** 1. SETIATEM Clue: It is the approximation of a value. 2. RUODN FOF Clue: Simplify a number by keeping its value close to what it was. 3. APPTROEXIAM Clue: it is to estimate a number. 4. DADENSD Clue: The numbers that are added together to get the sum. 5. ARLEGST LAPCE AVLUE Clue: It is the digit farthest to the left in a number. **DAY 2** Let the learners recall the keywords learned in the previous lesson and discuss its importance to the lesson. The only difference from yesterday's lesson is the numbers of digits to be estimated.	**DAY 1** **Unlocking Vocabulary Answer:** 1. Estimate 2. Round Off 3. Approximate 4. Addends 5. Largest Place Value

	DAY 3 Recall the keywords from previous lessons. The only difference for the day's lesson is the operation to used which is subtraction. Present the terms minuend, subtrahend, difference estimate and round to the class. Ask them what they know about these terms. ● **Minuend** – It is the number from which another number is being subtracted. ● **Subtrahend** – It is the number that is being subtracted from the minuend. ● **Difference** – It is the result of subtracting the subtrahend from the minuend. **DAY 4** To facilitate the lesson language practice, recall the keywords learned from yesterday. This time, it will focus on estimating the difference of 6-digit numbers by rounding to the largest place value. **DAY 5** Let the learners give the steps in estimating the sum or difference of 5 to 6-digit numbers. Steps to follow in estimating the sum and difference of numbers. 1. Round the numbers to the nearest large place value. 2. Add or subtract the rounded numbers.	
C. Developing and Deepening Understanding	**DAY 1** **SUB-TOPIC 1: Estimating the Sum of Two 5-Digit Numbers** **1. Explicitation** Present two 5-digit numbers using the tv or projector or you may write it out on the board. Let them read the numbers. 1.) 56 567 2.) 23 945 **2. Worked Example**  Show and explain how to estimate the sum. Step 1. Identify the digit with the largest place value. Step 2: Round off the addends to the nearest ten thousands. Step 3. Add the rounded addends to get the estimated sum.  	**DAY 1** **Worksheet No. 1 Answer Key:** Question 1 1. C 2. A 3. B 4. C 5. A Question 2 1. 70 000 2. 80 000 3. 90 000

	Therefore, the estimated sum is 80 000. **3. Lesson Activity** 56 567 → **60 000** + 23 945 → + **20 000** **80 000** See Worksheet Activity 1	4. 70 000 5. 90 000

DAY 2

SUB-TOPIC 2: Estimating the Sum of Two 6-Digit Numbers

1. Explicitation

Matatag Elementary School is organizing a fund-raising event for the typhoon Egay victims. The Dela Cruz Foundation donated food packs worth Php 358 500.00 and Barcelona Family donated medicines worth Php 210, 800.00. About how much was donated for the typhoon victims?

Questions:

1. Who organized the fund-raising activity for the Typhoon Egay victims?
2. Who donated food packs? How much is its worth?
3. Who donated medicines? How much is its worth?
4. What can you say about the Barcelona Family and Dela Cruz Foundation?
5. Cite also ways on how you can show your kindness to others.
6. What phrase in the problem indicates that an estimated sum is being asked for?
7. What is asked in the problem?
8. How can we solve the problem?

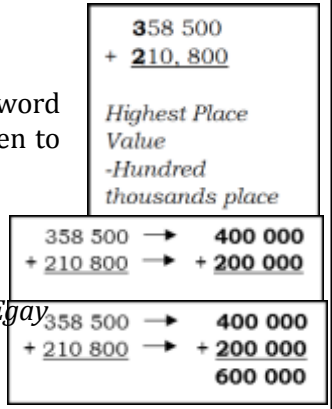
2. Worked Example

Show and explain to the class how they will solve the given word problem, which is to look for the estimated sum of donations given to the typhoon victims.

Step 1. Identify the digit with the largest place value. Step 2: Round off the addends to the nearest large place value.

Step 3. Add the rounded addends to get the estimated sum.

Therefore, the estimated sum of donations given to the typhoon Egay victims is Php 600 000.



3. Lesson Activity

See Worksheet Activity No. 2

DAY 2

Worksheet No. 2 Answer Key:

1. 700 000	6. 600 000
2. 900 000	7. 900 000
3. 900 000	8. 600 000
4. 700 000	9. 900 000
5. 1 000 000	10. 800 000

DAY 3

SUB-TOPIC 3: Estimating the Difference of Two 5-Digit Numbers

1. Explicitation

During the vegetable harvest season, Danilo's Farm harvested 56 643 kilograms of cauliflower and Angelo's Farm harvested 34 221 kilograms of the same kind of vegetable. Estimate the difference of the kilograms of vegetables harvested by Danilo's Farm and Angelo's Farm.

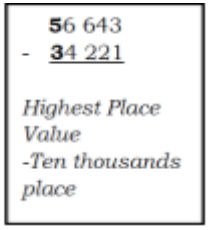
Questions:

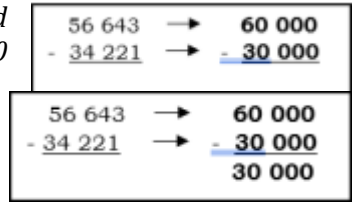
1. What kind of vegetable did they harvest?
2. How many kilograms of cauliflower did Danilo's Farm harvest? How about Angelo's Farm?
3. What is asked in the problem?
4. How can we solve the problem?

2. Worked Example

Show and explain to the class how to get the estimated difference of the given two 5-digit numbers in the word problem.

Step 1: Identify the digit with the highest place value. Step 2: Round off the numbers to the largest place value. Step 3. Subtract the rounded numbers to get the estimated difference.





Therefore, the estimated difference between the harvested cauliflower from Danilo's Farm and Angelo's Farm is 30 000 kilograms.

3. Lesson Activity

See Worksheet Activity No. 3

DAY 4

SUB-TOPIC 4: Estimating the Difference of Two 6-Digit Numbers

1. Explicitation

Santiago's toy factory located in Manila manufactured 451,565 toy cars in November and 164, 234 in December which are distributed to the different malls in the Philippines. Approximately, how many more toy cars were manufactured in November than in December?

Questions:

1. Who manufactured different types of toys?

DAY 3

Worksheet No. 3 Answer Key:

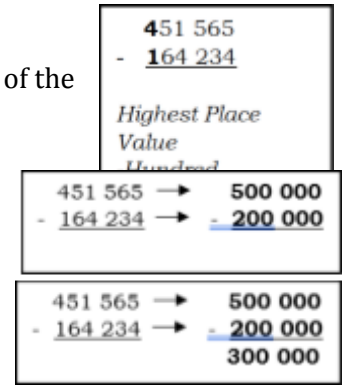
1. 30000
2. 30 000
3. 60 000
4. 30 000
5. 30 000
6. 20 000
7. 40 000
8. 50 000
9. 30 000
10. 40 000

2. Where is Santiago's toy factory located?
3. How many toy cars were manufactured in November? December?
4. What phrase in the problem indicates that an estimated difference is being asked?
5. What is asked in the problem?
6. How can we solve the problem?

2. Worked Example

Show and explain to the class how to get the estimated difference of the given two 6-digit numbers in the word problem.
Step 1: Identify the digit with the highest place value. Step 2: Round off the numbers to the largest place value. Step 3. Subtract the rounded numbers to get the estimated difference.

Therefore, the estimated difference between the manufactured toy cars in November and December is 300 000.



3. Lesson Activity

See Worksheet Activity No. 4 See Worksheet Activity No. 5

DAY 5

SUB-TOPIC 5: Estimating the Sum or Difference of Two 5- to 6-digit Numbers

1. Explicitation

The Arucan Family has a pineapple farm. Last year, they harvested 165 345 pineapples and this year, they harvested 37 562. Approximately, how many more pineapples did they harvest last year than this year?

Questions:

1. Who owned a farm?
2. What kind of crop did they grow?
3. How many pineapples did they harvest last year? This year?
4. Do you like to eat pineapples? Why?
5. What is asked in the problem?
6. How can we solve the problem?

DAY 4

Worksheet No. 4 Answer Key:

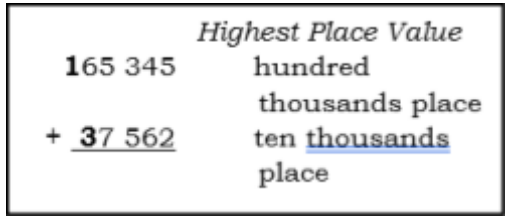
1. 300 000
2. 400 000
3. 400 000
4. 200 000
5. 200 000
6. 500 000
7. 500 000
8. 600 000
9. 100 000
10. 400 000

Worksheet No. 5 Answer Key:

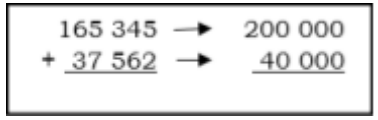
1. 100 000
2. 200 000
3. 500 000
4. 300 000
5. 300 000

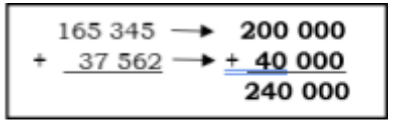
2. Worked Example

Discuss to the class how to look for the

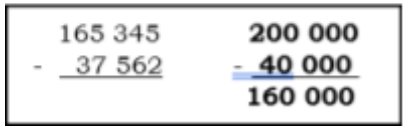


estimated sum and difference of the given numbers from the word problem.
Step 1: Identify the digit with the highest place value.
Step 2: Round off the numbers to the largest place value.
Step 3: Add the rounded numbers to get the estimated sum.
Therefore, the estimated sum of pineapples harvested is 240 000.





Step 4: Subtract the rounded numbers to get the estimated difference.
Therefore, the estimated difference of the two numbers is 160 000.



3. Lesson Activity

See Worksheet Activity No. 6

DAY 5

Worksheet No. 6 Answer Key:

1. B	6. D
2. C	7. I
3. E	8.J
4. A	9. H
5. F	10. G

D. Making Generalizations	**1. Learners' Takeaways** How do you estimate the sum of two 5-digit numbers? 6-digit numbers? **2. Reflection on Learning** How do you estimate the difference between two 5-digit numbers? 6-digit numbers?	**Expected Answer:** Step 1: Identify the digit with the largest value. Step 2: Round off the numbers to the nearest ten thousand/hundred thousands. Step 3: Add the rounded addends to get the estimated sum **Expected Answer:** To estimate the difference of two 5- and 6-digit numbers, round the numbers to the largest place value, then subtract the rounded numbers.

IV. EVALUATING LEARNING: FORMATIVE ASSESSMENT AND TEACHER'S REFLECTION		**NOTES TO TEACHERS**
A. Evaluating Learning	**1. Formative Assessment** **DAY 1**	**Answers:** **Formative Assessment**

Estimate the sum of the numbers by rounding the addends to the largest place value. Choose the letter of the correct answer.

TASK 1:

1. 55 630 + 34 712
   A. 100 000 B. 90 000 C. 80 000 D. 70 000
2. 29 732 + 45 005
   A. 90 000 B. 80 000 C. 70 000 D. 60 00
3. 57 355 + 16 119
   A. 40 000 B. 50 000 C. 60 000 D. 80 000
4. 26 234 + 13 567
   A. 40 000 B. 50 000 C. 60 000 D. 70 000
5. 23 506 + 21 763
   A. 60 000 B. 50 000 C. 40 000 D. 30 000

Instructions:
Complete the table below.

TASK 2:

Numbers	Rounded addends to the largest place value	Estimated Sum
1. 45 125 + 11 067		
2. 64 191 + 19 225		
3. 27 056 + 35 017		
4. 16 116 + 11 209		
5. 15 239 + 43 231		

DAY 2

TASK 1:

1. What is the estimated sum of 567 016 and 145 348?
   A. 600 000 B. 700 000 C. 800 000 D. 900 000
2. Which of the following shows the estimated sum of 724 906 and 153 818?
   A. 900 000 B. 800 000 C. 700 000 D. 600 000
3. Which of the following gives an estimated sum of 800 000?
   A. 452 345 + 461 734 C. 537 230 + 312 008
   B. 670 113 + 160 819 D. 348 912 + 561 906
4. Estimate the sum of 234 678 and 406 781.
   A. 600 000 B. 700 000 C. 800 000 D. 900 000
5. Prim's Drugstore sold medicines worth of Php 567 900 in January and Php 436 975 in February. Approximately, how much was the total sales of Prim's Drugstore?
   A. 700 000 B. 800 000 C. 900 000 D. 1 000 000

Instructions: Put a check (√) if the estimated sum of the given addends is correct and X mark if not, then write the correct answer.

TASK 2:

1. 292 231 → 300 000
   + 450 337 → + 500 000
   800 000

3. 470 274 → 500 000
   + 175 563 → + 100 000
   400 000

5. 782 038 → 800 000
   + 128 473 → + 100 000
   900 000

2. 511 807 → 600 000
   + 345 636 → + 300 000
   900 000

4. 562 091 → 600 000
   + 108 346 → + 100 000
   700 000

Answer Keys: DAY 1

Activity No. 3: CHECK-UP

Task/Question 1:
1. B
2. B
3. D
4. A
5. C

Task/Question 2:

Numbers	Rounded addends to the nearest large place value	Estimated Sum
1. 45 125 + 11 067	50 000+ 10 000	60 000
2. 64 191 + 19 225	60 000 + 20 000	80 000
3. 27 056 + 35 017	30 000 + 40 000	70 000
4. 16 116 + 11 209	20 000 + 10 000	30 000
5. 15 239 + 43 231	20 000 + 40 000	60 000

DAY 2

Activity No. 7: CHECK-UP

Task/Question 1:
1. B
2. A
3. C
4. A
5. D

Task/Question 2:
1. √
2. 500 000 + 300 000 = 800 000
3. 500 000 + 200 000 = 700 000
4. √
5. √

DAY 3

Activity No. 11: CHECK-UP

Task/Question 1:	Task/Question 2:
1. C	6. 50 000
2. D	7. 40 000
3. A	8. 40 000
4. A	9. 30 000
5. D	10. 20 000

DAY 4

Activity No. 16: CHECK-UP

Task/Question 1:	Task/Question 2:
1. A	6. 600 000
2. C	7. 200 000
3. B	8. 200 000
4. D	9. 500 000
5. A	10. 100 000

DAY 5

Numbers	Rounded addends to the nearest large place value	Estimated Sum/Difference
1. 45 345 + 23 342	50 000 + 20 000	70 000
2. 78 564 + 12 707	80 000 + 10 000	90 000
3. 34 775 + 23 723	30 000 + 20 000	50 000
4. 154 735 + 642 561	200 000 + 600 000	800 000
5. 634 267 + 102 845	600 000 + 100 000	700 000
6. 56 322 – 34 882	60 000 – 30 000	30 000
7. 87 373 – 54 234	90 000 – 50 000	40 000
8. 678 234 – 234 225	700 000 – 200 000	500 000
9. 563 229 – 234 774	600 000 – 200 000	400 000
10. 453 334 – 324 887	500 000 – 300 000	200 000

DAY 3

TASK 1:

1. What is the estimated difference of 48 456 and 18 076?
   A. 10 000 B. 20 000 C. 30 000 D. 40 000
2. Which of the given number has the estimated difference of 80 000?
   A. 65 662 – 25 901 C. 77 209 – 35 316
   B. 87 340 – 36 880 D. 94 116 – 12 568
3. Estimate the difference of 45 782 and 26 236.
   A. 20 000 B. 30 000 C. 40 000 D. 50 000
4. There are 45 200 tickets to be sold for the raffle draw. 38 116 tickets are already sold. About how many tickets are not yet sold?
   A. 10 000 B. 20 000 C. 30 000 D. 40 000
5. There are 15 456 people who watched on the first day of the musical play show, while there are 12 115 people who watched the show on the second day. About how many more people watched the musical show on the first day than in the second day?
   A. 40 000 B. 30 000 C. 20 000 D. 10 000

Instructions: Estimate the difference of the given 5-digit numbers by rounding to the largest place value.

TASK 2:

6. 88 406→
   - 35 602→

7. 68 561→
   - 29 287→

8. 45 708→
   - 11 093→

9. 88 530→
   - 62 085→

10. 34 872→
    - 13 461→

DAY 4

Instructions: Estimate the difference. Write the letter of the correct answer.

TASK 1:

1. 567 230 – 148 770			
A. 500 000	B. 400 000	C. 300 000	D. 200 000
2. 873 234 – 237 225			
A. 500 000	B. 600 000	C. 700 000	D. 800 000
3. 352 882 – 167 407.			
B. 200 000	B. 300 000	C. 400 000	D. 500 000
4. 675 886 – 456 737			
A. 500 000	B. 400 000	C. 300 000	D. 200 000
5. 447 726 – 128 833			
A. 300 000	B. 400 000	C. 500 000	D. 600 000

Instruction: Estimate the difference.

TASK 2:

6. 858 536→ - 346 644→	7. 564 345→ - 411 326→	8. 941 226→ - 678 765→

9. 823 541→
   - 342 337→

10. 234 447→
    - 111 793→

DAY 5

Instructions: Fill the table with the needed data.

Numbers	Rounded addends to the largest place value	Estimated Sum/Difference
1. 45 345 + 23 342		
2. 78 564 + 12 707		
3. 34 775 + 23 723		
4. 154 735 + 642 561		
5. 634 267 + 102 845		
6. 56 322 – 34 882		
7. 87 373 – 54 234		
8. 678 234 – 234 225		
9. 563 229 – 234 774		
10. 453 334 – 324 887		

2. Homework (Optional)

DAY 1

Instructions:

Estimate the sum of the numbers by rounding the addends to the largest place value.

1. 81 516→ + 16 309→	2. 48 567→ + 34 160→	3. 32 407 → + 34 528 →

4. 76 346 →
+ 11 237 →

5. 27 521→
+ 12 426 →

DAY 2

Instructions:

Complete the table.

Numbers	Rounded addends to the nearest large place value	Estimated Sum
1. 806 234 + 135 003		
2. 224 117 + 378 209		
3. 537 275 + 223 116		
4. 643 286 + 328 473		
5. 356 289 + 347 223		

DAY 3

Instructions: Estimate the difference.

1. 91 206→
- 23 145→

2. 73 809→
- 32 564→

3. 67 115→
- 45 345→

4. 30 236→
- 12 450→

5. 67 239→
- 40 116→

Homework Answer Keys: DAY 1

Activity No. 4: MORE PRACTICE
Task/Question 1:
1. 100 000
2. 80 000
3. 60 000
4. 90 000
5. 40 000

DAY 2

Numbers	Rounded addends to the nearest large place value	Estimated Sum
1. 806 234 + 135 003	800 000 + 100 000	900 000
2. 224 117 + 378 209	200 000 + 400 000	600 000
3. 537 275 + 223 116	500 000 + 200 000	700 000
4. 643 286 + 328 473	600 000 + 300 000	900 000
5. 356 289 + 347 223	400 000 + 300 000	700 000

DAY 3

Activity No. 12: "MORE PRACTICE"
1. 70 000
2. 40 000
3. 20 000
4. 20 000
5. 30 000

DAY 4

Activity No. 17: MORE PRACTICE
1. 700 000 2. 200 000 3. 300 000 4. 100 000 5. 300 000

DAY 5

Activity No. 22: MORE PRACTICE
1. Mr. Sampilo went to the appliance center.
2. He bought a television set and a laptop.
3. The television set is worth Php 75 999 and the laptop is 39 599.
4. It is to look for the estimated total cost of the appliance bought by Mr. Sampilo.
5. 75 999 – 80 000
+ 39 599 – + 40 000
120 000

The total cost of the appliances bought by Mr. Sampilo is Php 120 000.

	DAY 4 **Instructions:** Estimate the difference by rounding the numbers to the largest place value. 1. 941 674 and 183 400 2. 748 225 and 456 559 3. 407 235 and 107 871 4. 745 349 and 576 691 5. 548 006 and 206 667 **DAY 5** **Instructions:** Read and solve. Mr. Sampilo went to the appliance center in the city. He bought a television set worth P75 999 and a laptop worth P39 599. Estimate the total expenses of Mr. Sampilo in buying the television set and laptop. Questions: 1. Who went to the appliance center? 2. What kind of appliance did he buy? 3. How much is the television set? laptop? 4. What is asked in the problem? 5. What is the solution to the problem?			
B. Teacher's Remarks	*Note observations on any of the following areas:*	**Effective Practices**	**Problems Encountered**	The teacher may take note of some observations related to the effective practices and problems encountered after utilizing the different strategies, materials used, learner engagement, and other related stuff. Teachers may also suggest ways to improve the different activities explored/lesson exemplar.
	strategies explored			
	materials used			
	learner engagement/ interaction			

	others			

C. Teacher's Reflection	*Reflection guide or prompt can be on:* ● *<u>principles behind the teaching</u>* *What principles and beliefs informed my lesson? Why did I teach the lesson the way I did?* ● *<u>students</u>* *What roles did my students play in my lesson? What did my students learn? How did they learn?* ● *<u>ways forward</u>* *What could I have done differently? What can I explore in the next lesson?*	Teacher's reflection in every lesson conducted/facilitated is essential and necessary to improve practice. You may also consider this as an input for the LAC/Collab sessions.