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Mathematics

Quarter 1 - Module 4:
Round Me Up, Round Me Down

ALTERNATIVE DELIVERY MODE
ADM

Department of Education ● Republic of the Philippines

Mathematics – Grade 4
Alternative Delivery Mode
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What This Module is About

This module is a comprehensive series of activities which helps you learn and understand better the meaning and uses of numbers.

It contains series of activities that will help you learn and develop mastery on rounding numbers to the nearest thousand and ten thousand. The activities are interesting and the directions are easy to follow. You can do it by yourself or with the help of your parents, brothers and sisters. But of course, your teacher is always there ready to help you.

I am sure you will enjoy using this module. Do your best and be a lover of numbers from now on.

What I Need to Know

In this module, you will be able to enjoy working with numbers specially on rounding numbers. Rounding numbers is very helpful to us specially on planning your budget, saving and when buying.

This module is designed and written specially for you. It is made easy through the aid of illustrations for you to understand better our lesson today.

After going through this module, you are expected to round numbers to the nearest thousands and ten thousands.
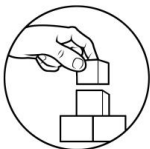
I hope that you will learn a lot today. God bless and enjoy!

How to Learn from this Module

For you to achieve the objectives cited above, you are to do the following:

- Take your time reading the lessons carefully.

- Follow the directions and/or instructions in the activities and exercises diligently.

- Answer all the given tests and exercises.

Icons of this Module

	What I Need to Know	This part contains learning objectives that are set for you to learn as you go along the module.
	What I Know	This is an assessment as to your level of knowledge to the subject matter at hand, meant specifically to gauge prior related knowledge.
	What's In	This part connects previous lessons with that of what you are going to learn.
	What's New	An introduction of the new lesson through various activities, before it will be presented to you.
	What is It	These are discussions of the activities as a way to deepen your discovery and understanding of the concept.
	What's More	These are follow-up activities that are intended for you to practice further in order to master the competencies.
	What I Have Learned	Activities designed to process what you have learned from the lesson
	What I Can Do	These are tasks designed to showcase your skills and knowledge gained, and applied into real-life concerns and situations.
	Post Assessment	This assessment evaluates your level of mastery in achieving the learning objectives.
	More Activities	These are additional activities designed to increase the level of your skills and knowledge.
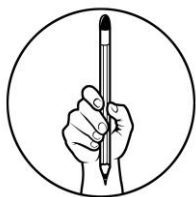
What I Know

Direction: Read and understand each question or statement. Choose the letter of your best answer.

A. Use the numbers in the box to answer the questions below. Write the letter of your best answer.

a	b	c	d	e
1 956	5 487	8 434	5 999	99 132

_____ 1. Which number is nearest to 2 000?
_____ 2. Which number is nearest to 100 000?
_____ 3. Which is the 4-digit number that would be rounded off
        or nearest to 5 000?
_____ 4. Which number is between 8 000 and 9 000?
_____ 5. Which 4-digit number that would round off to 6 000?

B. Read each sentence and choose the letter of your best answer.

_____ 6. The enrollment of kindergarten in the school year 2020-2021
        is 1 687. 1 687 is closer to _____.
      a. 1 000   b. 2 000   c. 3 000   d. 1 500
_____ 7. The population in a certain city is 38 964. About how many
        people are there in the city?
      a. 30 000   b. 40 000   c. 35 000   d. 50 000
_____ 8. ABS-CBN hired 11 000 workers for their station. Which
        number is nearest to 11 000?
      a. 978   b. 10 984   c. 19 234   d. 26 123
_____ 9. Which is a greatest number?
      a. 12 965   b. 20 011   c. 20 110   d. 20 111
_____ 10. Which is the least number?
      a.36 785   b. 37 000   c. 40 000   d. 59 123

Lesson 1 — Rounds Numbers to the Nearest Thousand and Ten Thousand

What's In

Before we start, let's have a warm up activity.

_____ 1. If we count numbers by 10s what is next to: 40, 50, 60, ___
   a. 10   b. 20   c. 70   d. 80

_____ 2. What number is in between 40 and 50?
   a. 30   b. 40   c. 45   d. 50

Look at the number line. Read each question and write the letter of your best answer.

```
a        b        c        d        e        f        g        h
|--------|--------|--------|--------|--------|--------|--------|
1 000   1 500   2 000   2 500   3 000   3 500   4 000   4 500
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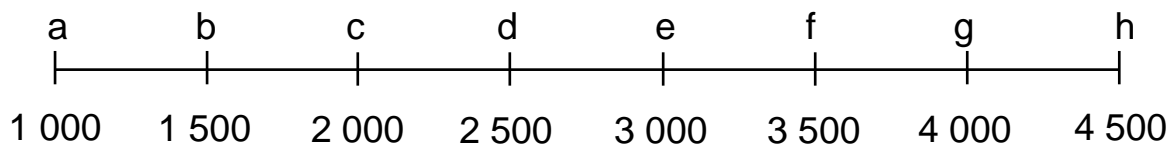
_____ 3. What number is at the middle of or in between 1 500 and
            2 500?
   a.1 000   b. 2 000   c. 3 000   d. 2 500

_____ 4. 2 500 is nearest to what number in the number line?
   a. 1 000   b. 3 000   c. 4 000   d. 1 500

_____ 5. What number is in between 1 000 and 3 000?
   a. 1 500   b. 2 000   c. 2 500   d. 3 000

What do you think will be our lesson in this module? Did you enjoy the activity?

What's New

A poultry owner has 2 000 chickens in his farm. He gathers around 1 068 eggs a day. He delivers about 8 567 eggs a week.

A. Using the number line below, answer the question that follows.
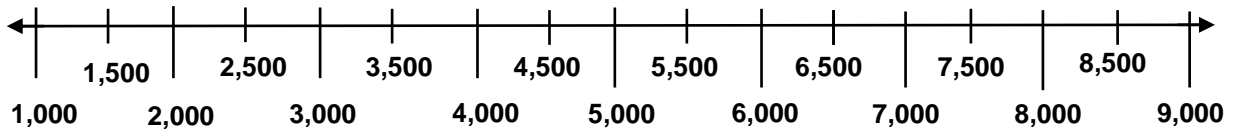
1. 1 068 is nearest to what thousand?
   a. 1 000   b. 1 500   c. 2 000   d. 2 500
2. 8 567 is nearest to what thousand?
   a. 1 000   b. 5 000   c. 9 000   d. 8 500
3. In the number 1 068, what is in the thousands place?
   a. 0   b. 1   c. 6   d. 8
4. What number is in the thousands place in 8 567
   a. 5   b. 6   c. 7   d. 8
5. What number is at the right of number 8 in the number 8 567?
   a. 5   b. 6   c. 7   d. 8

B. Observe the illustration below.
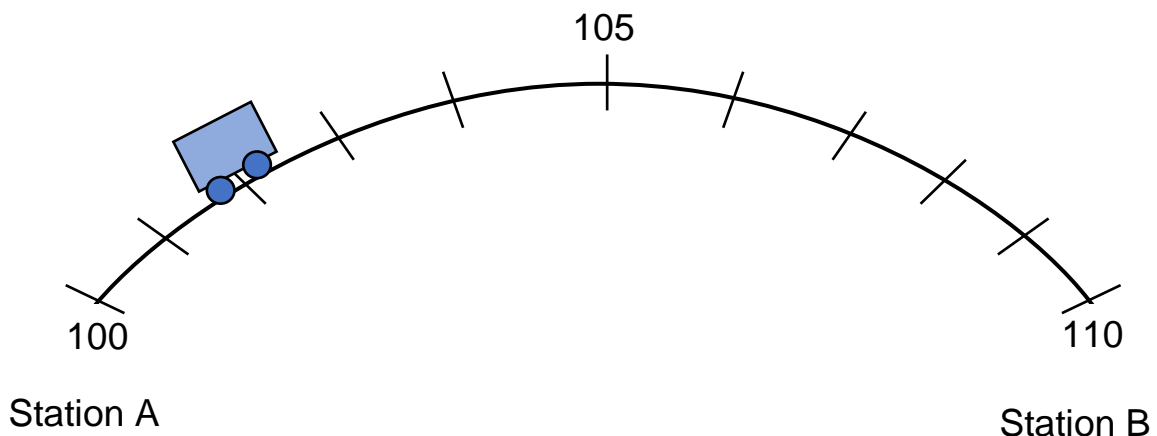
In what station do you think the cart will go? In which station the cart is nearest to, is it in Station A (100) or Station B (110)?

Based on your observation from the previous illustration, let us have this activity. In what number will your cart go as shown in the illustrations below. Write the number on the blank.

_____ 1.   120   130

_____ 2.   200   300

_____ 3.   270   280

_____ 4.   800   900

_____ 5.   500   600

The next page will help you understand more on rounding off numbers.
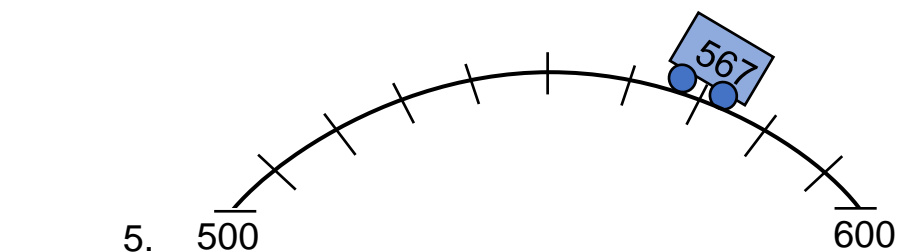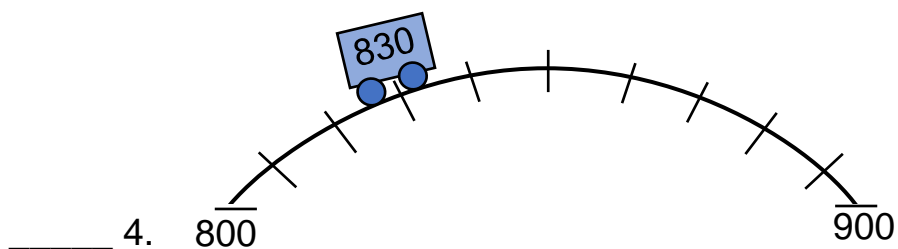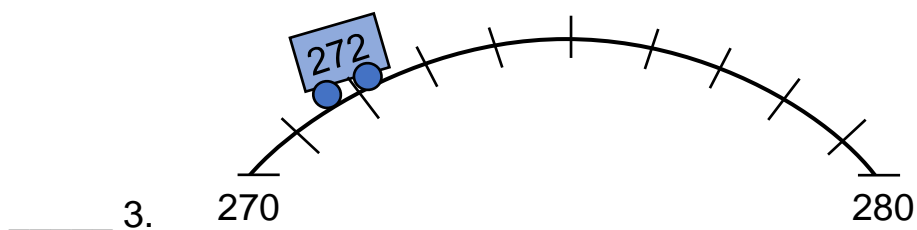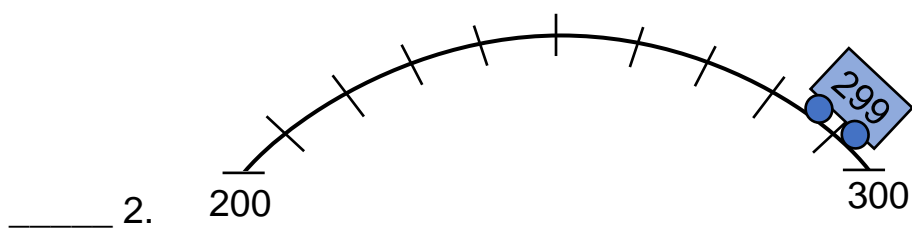
In rounding off numbers, we need to know the steps or tips.

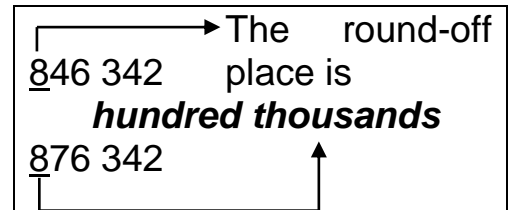|	
Step 1 – Find the place or place value of the number you are going to round off. We will call it as <u>Round-off Place.</u>	8̲46 342 → The round-off place is ***hundred thousands*** 8̲76 342 ↑
Step 2 – Look at the number to the right of the round-off place	8̲④6 342 → The number to the right of the rounding-off place ↑ 8̲⑦6 342
Step 3 – If the number to the right of the rounding-off place is less than 5 (0,1,2,3,4) retain the number of the round-off place	8̲④6 342 ↓ retain/copy 8_ _ _ _ _ → The number to the right of the Rounding-off place is less than 5
– If the number to the right of the rounding-off place is 5 or more (5,6,7,8,9) add 1 (+1) to the digit in the round-off place	8̲⑦6 342 ↓ Add 1(+1) 9_ _ _ _ _ → The number to the right of the Rounding-off place is 5 or more
Step 4 – Change all the digits after the round-off place to zero (0)	4 is (lesser than 5) retain or copy 8 8̲④6 342 800 000 7 is (5 or more) Add 1 to 8 = 9 8̲⑦6 342 900 000
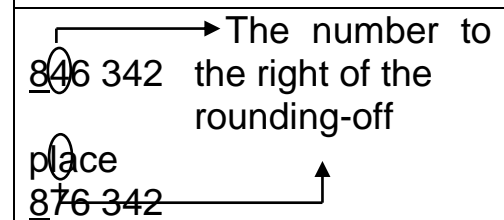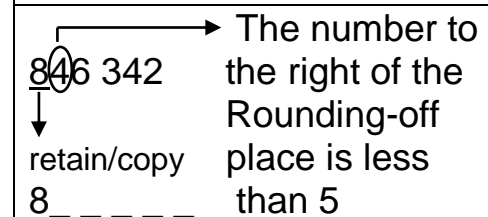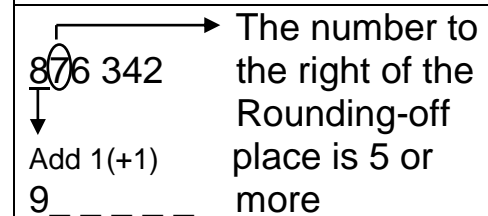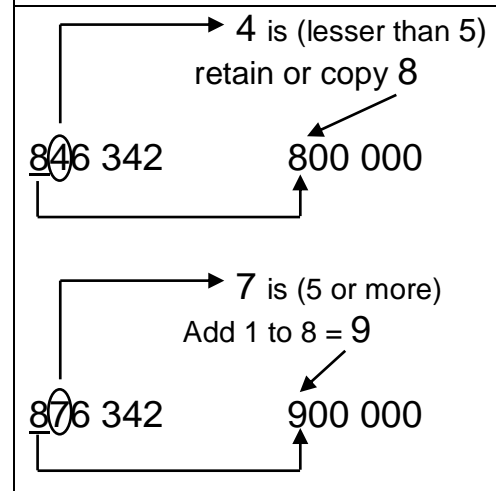
What's More

Direction: Read and analyze each item carefully.

1. Encircle the number that could be rounded or nearest to 13 000?
   a.12 580   b. 12 352   c. 13 940   d. 13 567

Using the number line, find out where the number is nearest to .
Choose the letter of your best answer.

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◄──┼────┼────┼────┼────┼────┼────┼────┼────┼────┼──►
      21 000     23 000     25 000     27 000     29 000
   20 000     22 000     24 000     26 000     28 000     30 000
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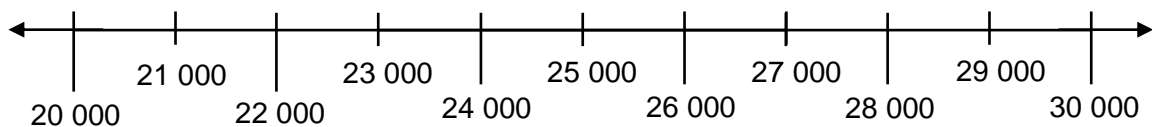
_____ 2. 23 789   a. 20 000   b. 30 000

_____ 3. 27 123   a. 20 000   b. 30 000

_____ 4. 27 832   a. 20 000   b. 30 000

_____ 5. 21 385   a. 20 000   b. 30 000

What I Have Learned

Remember:

- To round off numbers ;

    - **Round down** - If the number or digit to the right of the round-off place is 0,1,2,3,4. Retain the digit in the round-off place and replace all the digits to its right with zero/s.

        The number to the right of the round-off place

        56 348 = 56 300

        The round-off place

    - **Round up** - If the number or digit to the right of the round-off place is 5,6,7,8,9. Add one (+1) to the digit in the round-off place and replace all the digits to its right with zero/s.

        The number to the right of the round-off place

        56 378 = 56 400

        The round-off place

What I Can Do

A. Encircle the letter of the number that can be rounded to the given number.

1. 78 000
   a. 77 342   b. 77 473   c. 78 124   d. 78 943

2. 100 000
   a. 45 123   b. 142 638   c. 198 324   d. 214 006

B. Encircle the letter of your best answer.

3. If 4 567 is rounded to its highest place value, what will be the answer?
   a. 4 000   b. 4 500   c. 4 600   d. 5 000

C. Round off the following numbers to the place value of the underlined digit.
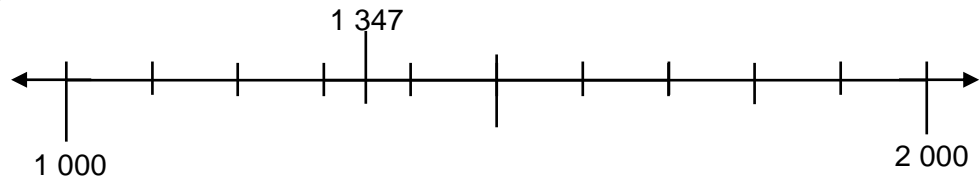
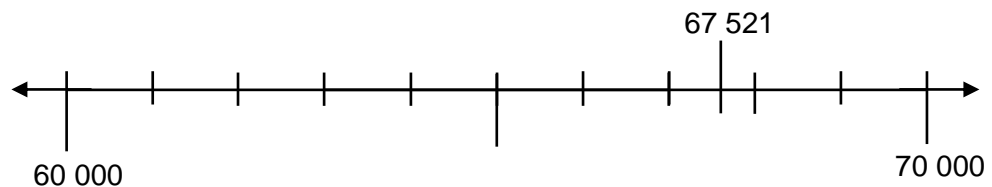4. 6̲7 438 - _____

5. 67̲ 438 - _____

 Post Assessment

A. Read and understand each question carefully. Write your answer on the blank.

_____ 1. Round 1 347 to the nearest thousand. Use the number line as your reference.

_____ 2. Round 67 521 to the nearest ten thousand using the number line below.

B. Complete the table below. Round each number to the nearest thousand or ten thousand.

Number	Ten thousand	Thousand
Ex: 25 304	30 000	25 000
75 109	3.	7.
84 738	4.	8.
328 645	5.	9.
675 091	6.	10.

Additional Activities

A. Read and analyze each number.

1. Aya's book has 1 673 pages. Round the number to the nearest thousand. _____

2. The earths circumference measures 40 049 kilometers. Round the number to the nearest ten thousand._____

From numbers 3 – 5, round each number to its underlined digit.

3. 5<u>4</u> 184 – _____

4. <u>5</u>7 612 – _____

5. <u>3</u> 582 –_____

Answer Key

Additional Activities
1. 2 000
2. 40 000
3. 54 000
4. 58 000
5. 4 000

Post Assessment
11. 1 000
12. 70 000
13. 80 000
14. 80 000
15. 330 000
16. 680 000
17. 75 000
18. 85 000
19. 329 000
20. 675 000

What's New
1. A
2. E
3. B
4. C
5. D
6. B
7. B
8. B
9. B
10. A

What's In
1. C
2. C
3. B
4. B
5. B

What's New
1. A
2. C
3. B
4. D
5. A
1. 130
2. 300
3. 270
4. 800
5. 600

What I can Do
6. C
7. B
8. D
9. 70 000
10. 67 000

What's More
1. A
2. A
3. B
4. B
5. A

Reference:

1. Tabilan, A., I. J. Arce., R. Pascua., Calayag, N., L. Dacuba., D. Borias., Buemia, R., M. Colao., I. Morandante.,Danao, A., I. Gonzaga.,I. Briones and J. A Daganta (2015) Mathematics – Grade 4 Teachers Guide., Department of Education

2. Tabilan, A., I. J. Arce., R. Pascua., Calayag, N., L. Dacuba., D. Borias., Buemia, R., M. Colao., I. Morandante.,Danao, A., I. Gonzaga.,I. Briones and J. A Daganta (2015) Mathematics – Grade 4 Learners Materials., Department of Education

3. Tunog, Cyrene F., Jean B. Liberato   (2017) Mathematics Worksheets for First Grading, Department of Education Valencia City