

# Mathemat Microlearning

# Rounding Numbers to the





#### Mathematics 4 Microlearning Module (MLM) Quarter 1 – Module 11: Rounding Numbers to the Nearest Hundred Thousand First Edition, 2024

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#### **MICROLEARNING MODULE**

| Name:       |                 | Grade & S     | ec:   | Score       | :  |
|-------------|-----------------|---------------|-------|-------------|----|
| Subject:    | Mathematics     | Quarter:      | 1     | MLM No      | 11 |
| Teacher:    |                 |               |       |             |    |
| Competency: | Round numbers t | o the nearest | hundr | ed thousand |    |

#### A. Look Back!

| W1 | rite $\geq$ , $\leq$ , or = or | n the space pro | vided for: |         |
|----|--------------------------------|-----------------|------------|---------|
| 1. | 947 295                        | 984 123         | 4. 593 895 | 895 369 |
| 2. | 1 000 000                      | 995 099         | 5. 397 145 | 493 000 |
| 3. | 846 104                        | 846 104         |            |         |
|    |                                |                 |            |         |

### **B. What's New?**

What does rounding off mean?

Rounding numbers means making numbers simpler but keeping their value close to what it was.

#### C. What Is It?

In rounding numbers, identify the rounding place first. If the digit to the right of the rounding place is below 5 (4,3,2,1,0), round the **number down** by changing the rest of the digits to the right into zeros. If the digit to the right of the rounding place is 5 or more (5,6,7,8,9), round the **number up** by changing the rest of the digits to right into zeros and adding 1 to the digit in the rounding place.

#### D. Let's try!

Study these examples.

1. When rounding to the nearest thousand.

<u>1</u> <u>7</u>28

rounding number- greater than 5 rounding place then,

1 000 1  $\sqrt{28}$ - when rounded to the nearest thousand= 2 000

2. Round 92 960 to the nearest ten thousand.

92 960-  $\longrightarrow$  the rounding number- less than 5  $\longrightarrow$  the rounding place

then,

0 000 92 960= 90 000

3. To which number is 278 241 closer to? 200 000 or 300 000? In this figure, <u>278 241</u>, <u>2</u> is our rounding place, and the number to the right, which is 7, is our rounding number. Since 7 is greater than 5, add 1 to the <u>2</u> of 278 241 and change the rest of the numbers to zero.



then,

100 000 278 241 = 300 000 Therefore 278 241 is closer to 300 000

The same process will apply when rounding numbers in different place values.

Study the table below.

| Number  | Thousand | Ten      | Hundred  |
|---------|----------|----------|----------|
|         |          | Thousand | Thousand |
|         |          |          |          |
| 278 241 | 278 000  | 280 000  | 300 000  |
| 125 927 | 126 000  | 130 000  | 100 000  |
| 643 610 | 644 000  | 640 000  | 600 000  |
| 492 789 | 493 000  | 490 000  | 500 000  |
| 831 671 | 832 000  | 830 000  | 800 000  |
| 108 401 | 108 000  | 110 000  | 100 000  |

Try these:

A. Complete the table by rounding each number to the nearest thousand, ten thousand, and hundred thousand.

| Number     | Thousand | Ten      | Hundred  |
|------------|----------|----------|----------|
|            |          | Thousand | Thousand |
| 1. 243 014 | 243 000  |          |          |
| 2. 938 567 |          | 940 000  |          |
| 3. 483 876 |          |          | 500 000  |

- B. Read each question carefully, and encircle the letter of the correct answer.
- 4. Which numbers can be rounded to 9,000? a. 8 200 b. 8 300 c. 8 400 d. 8 500
- 5. Round 273 749 to the nearest hundred thousand a. 300 000 b. 270 000 c. 273 000 d. 274 000

## E. Let's Evaluate

A. Round each number to each nearest thousand, ten thousand, and hundred thousand to complete the table.

| Number     | Thousand | Ten Thousand | Hundred  |
|------------|----------|--------------|----------|
|            |          |              | Thousand |
| 1. 124 421 |          | 120 000      | 100 000  |
| 2. 371 517 | 372 000  | 370 000      |          |
| 3. 823 143 | 823 000  |              | 800 000  |
| 4. 168 824 | 167 000  | 170 000      |          |
| 5. 456 789 |          | 460 000      | 500 000  |

- B. Read each question carefully, and encircle the letter of the correct answer.
- 6. Choose the numbers that can be rounded to 50,000. a. 42 897 b. 43 990 c. 44 157 d. 45 102

- 7. When 923 128 is rounded to the nearest thousand, the answer will be \_\_\_\_\_.
  a. 900 000 b. 910 000 c. 923 000 d. 930 000
- 8. Mang Kanor has a mango plantation. He harvested 676 934 kgs. When we round 676 934 to the nearest hundred thousand, we write it as \_\_\_\_\_\_\_\_\_
  a. 600 000 b.650 000 c. 700 000 d. 750 000
- 9. Which of the following choices is correct when you round 282 805 to the nearest ten thousand?
  - a. 280 000 b. 282 000 c. 282 800 d. 290 000
- 10. Which figures rounded to the nearest hundred thousand give the result of 400 000?a. 343 821b. 443 821c. 468 000d. 473 121

# **Challenge!**

- 1. Mabuhay Central Elementary School has a total population of 197 698 pupils in 15 years of its operation. Maligaya Central Elementary School has 231 104. Which school has closer estimate to the actual number?
- 2. A five-digit number has 9 in ten thousands place, 4 in thousands place, 2 in hundreds place ad 3 in tens place and 5 ones place. What is the estimated number?

# F. Reference

Tabilang, Alma R., Ian Jay B. Arce, Rodrigo V. Pascua, Nelma P. Calayag, Lolita P. Dacuba, Dioleta B. Borais, Rafael B. Buemia, Myrna T. Collao, Larry G. Morandante, Amado B. Danao, Laura N. Gonzaga, Isagani A. Briones, and John Antonio D. Daganta. *Mathematics 4 Learner's Material* 2015. Pasig City: Department of Education.

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#### Math Grade 4 Q1 LC11

#### Answer Key:

# A. Look Back

- 1. ≤ 2. ≥
- 3. =
- 5. 4. ≤
- 5. ≤

#### D. Let's Try

#### **A**.

|            | Number     | Thousand | Ten      | Hundred  |
|------------|------------|----------|----------|----------|
|            |            |          | Thousand | Thousand |
|            | 1. 243 014 | 243 000  | 240 000  | 200 000  |
|            | 2. 938 567 | 939 000  | 940 000  | 900 000  |
|            | 3. 483 876 | 484 000  | 480 000  | 500 000  |
| <b>B</b> . | 4. d       | 5. a     |          |          |

#### E. Let's Evaluate

| A. 1. 124 000 | B. 6. d |
|---------------|---------|
| 2.400 000     | 7. c    |
| 3.820000      | 8. c    |
| 4.200000      | 9. a    |
| 5.457000      | 10. b   |
|               |         |

# Challenge!

1. hundred thousands 2. 94 235