

M A T H E M A T I C S 4

Modified In-School Off-School Approach Modules (MISOSA)
Distance Education for Elementary Schools
SELF-INSTRUCTIONAL MATERIALS



ROUNDING NUMBERS TO THE NEAREST HUNDREDS, THOUSANDS, MILLIONS AND BILLIONS



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ROUNDING NUMBERS TO THE NEAREST HUNDREDS, THOUSANDS, MILLIONS AND BILLIONS

Objective: Round off numbers to the nearest hundreds, thousands, millions and billions.



- A. Do you still remember how to round off numbers to the nearest tens? Try these numbers:

_____ 1) 385
_____ 2) 349
_____ 3) 42
_____ 4) 63
_____ 5) 17

_____ 6) 1 342
_____ 7) 26 481
_____ 8) 14 826
_____ 9) 121 675
_____ 10) 243 292

- B. Fill in the blanks to complete the following sentences.

1. Janet harvested 276 mangoes in her farm. Two hundred seventy six mangoes will become _____ if she rounded the number to the nearest tens.
2. When the population of barangay is rounded to nearest tens 2 663 becomes _____.

Please be reminded that when rounding numbers to the nearest ten, you consider the digit at the right of the tens place.

Check your answer with the answer key. If your score is 10 to 12, you may continue with this lesson. If you got 9 or below, review your past lessons.





Study and Learn

Read the information that follows:

There are 371 582 residents in the City of Makati and 256 454 residents in Pasay City who are benefiting from the Clean and Green Program of the government. Look at the table on the next page and observe how the numbers 371 582 and 256 434 have been rounded.

1. Which cities benefit from the Clean and Green Program?
2. What do you think are the benefits enjoyed by these cities?
3. If you are the mayors of these cities, whom will you ask to join the program?

Number	Nearest Hundreds	Nearest Thousands	Nearest Ten Thousands	Nearest Hundred Thousands
371 582	371 600	372 000	370 000	400 000
256 434	256 400	256 000	260 000	300 000

The table above tells us how the number is rounded to the nearest hundreds, thousands, ten thousands, and hundred thousands. In doing this, we should remember also the periods and its components such as the units, tens and hundreds.

Let us examine closely how the numbers are rounded off.

371 582 - Nearest hundreds
 - Identify the hundreds digit – (5)
 - Look at the digit to the right of the hundreds digit – (8)
 - When it is 5 or up – round up
 5 becomes 6 and 82 becomes 00

so 371 582 is 371 600 rounded to nearest hundreds.

Now, let us see how it is rounded to nearest thousands.





371 582 - Identify the thousands digit – (1)
The digit to the right is 5 which means we are going to round it up. So we add 1 to 1 (thousands digit) and change 582 to 3 zeros.

So 371 582 is 372 000 rounded to nearest thousands.

Can you now tell the process for each number.

The same procedure is followed if rounding up numbers in millions and billions.

Let's study these numbers.

Number	Nearest Millions	Nearest Ten Millions	Nearest Hundred Millions
245 291 426	24 <u>5</u> 000 000	2 <u>5</u> 0 000 000	<u>2</u> 00 000 000
	Nearest Billions	Nearest Ten Billions	Nearest Hundred Billions
189 461 872 014	18 <u>9</u> 000 000 000	1 <u>9</u> 0 000 000 000	<u>2</u> 00 000 000 000



A. Round to the nearest thousands.

- 1) 6 520
- 2) 7 614
- 3) 9 949

B. Round to the nearest ten thousands.

- 1) 24 305
- 2) 82 641





3) 783 345

C. Round to the nearest hundred thousands.

- 1) 550 012
- 2) 26 023 173
- 3) 8 391 247

D. Round to the nearest millions.

- 1) 5 382 641
- 2) 61 782 349
- 3) 123 467 903

E. Round to the nearest ten millions.

- 1) 79 499 086
- 2) 350 246 891
- 3) 123 467 903

F. Round to the nearest hundred millions.

- 1) 472 135 812
- 2) 784 196 003
- 3) 25 576 408 113

G. Round to the nearest billions.

- 1) 5 362 401 315
- 2) 50 784 196 003
- 3) 350 784 186 214

H. Round to the nearest ten billions.

- 1) 66 275 100 348
- 2) 73 904 352 688
- 3) 176 274 143 019

I. Round to the nearest hundred billions.

- 1) 173 925 006 498
- 2) 812 047 344 630
- 3) 580 619 720 253





Wrap Up

When rounding numbers, consider the digit in the place you are rounding, then:

- increase this digit by 1 if the next digit to the right is 5 or more.
- leave this digit the same if the next digit to the right is less than 5. The next numbers are changed to zeros.



On Your Own

A. Round off these numbers.

	Thousands	Ten Thousands	Hundred Thousands
1) 439 157			
2) 524 361			
3) 817 429			

B. Round to the nearest:

	Millions	Ten Millions	Hundred Millions
1) 562 041 375			
2) 781 492 051			
3) 275 642 000			



C. Round to the nearest:

	Billions	Ten Billions	Hundred Billions
1) 302 372 543 905			
2) 409 157 983 219			
3) 856 492 601 031			

Check your answer with the answer key. If you get....

10-12 - *Excellent! You may now proceed to the next lesson.*

6-9 - *You need to review the processes you missed.*

0-5 - *You need to repeat the whole process.
Ask your teacher or elder to help you.*

