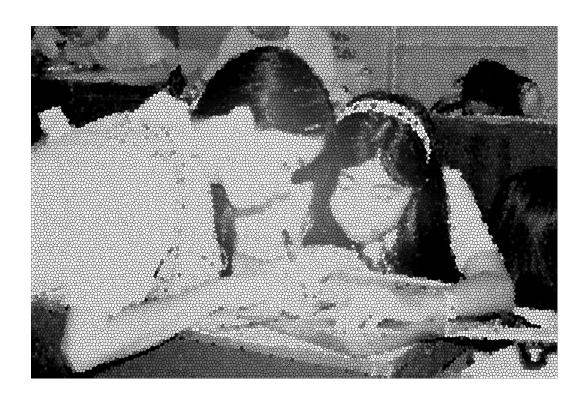
Modified In-School Off-School Approach Modules (MISOSA) Distance Education for Elementary Schools SELF-INSTRUCTIONAL MATERIALS



ROUNDING DECIMALS TO THE NEAREST TENTHS, HUNDRETHS, AND THOUSANDTHS



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ROUNDING DECIMALS TO THE NEAREST TENTHS/ HUNDREDTHS/THOUSANDTHS

Objective: Round decimals to the nearest tenths/hundredths/thousandths.



- A. Round off the whole number to the indicated place value.
 - _____ 1) 6 754 (hundreds)
 - _____ 2) 58 495 (thousands)
 - _____ 3) 37 638 (tens)
 - _____ 4) 138 754 (ten thousands)
 - _____ 5) 76 850 000 (millions)
- B. Choose the numerals that will round to the given number at the left.

6) 800	(748 854 775)
7) 1 000	(1565 1040 1775)
8) 20 000	(20 218 18 999 19 635)
9) 95 000	(94 750 95 500 95 475)
10) 8 000 000	(8 900 000 8 525 000 8 300 000)

Check your answer with the answer key. If your score is 8 to 10, you may continue with this lesson. If you got 7 or below, review your past lessons.





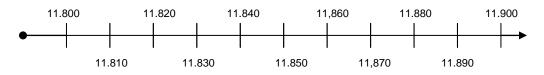


A. Study the problem opener.

During the Palaro ng Bayan, Aris ran the 100-metre dash in 11.843 seconds. Mike ran the same event in 11.861 seconds. Who is faster between the two runners?

Let us use the decimal numbers in the problem.

Analyze the number line.



- How many seconds it take Aris to cover the 100-metre dash? *11.843* seconds
- Locate this in the number line.
- Let us round the number 11.843 to the nearest tenths.
- Where is it close to? 11.800 or 11.900
- What time was utilized by Mike to cover the 100-metre dash? *11.861* seconds
- Locate this in the number line.
- Where is it close to? 11.800 or 11.900

Therefore, 11.843 round off to the nearest tenths is 11.8 and 11.861 round off to the nearest tenths is 11.9.





B. Let's discover the pattern in rounding off decimals. Examine the examples below.

0.3168	rounded to tenths rounded to hundreds rounded to thousands	= 0.3 = 0.32 = 0.317
0.2871	rounded to tenths rounded to hundredths rounded to thousandths	= 1.3 = 1.29 = 1.287

- What will you consider when rounding decimals. (The digit to be rounded and the number to the right of it.)
- What happens to the digit of the place value you are rounding if it is 5 or higher or lower than 5? (Add 1 to the digit to be rounded if 5 or higher retain the digit if less than 5.)



A. Round the following to the nearest value asked.

		Tenths	Hundredths	Thousandths
1)	8.7256			
2)	12.6321			
3)	87.0568			
4)	22.0054			
5)	35.1069			

B. Round to the place value of the underlined digit.

1) 0.6 <u>5</u> 3	4) 12.46 <u>2</u> 3
2) 0. <u>4</u> 67	5) 4.18 <u>3</u> 2
3) 6.8 <u>3</u> 21	







How do we round decimals to the nearest tenths? Nearest hundredths? Nearest thousandths?

To round decimals to the nearest tenths, hundredths and thousandths, we consider the digit to be rounded and the number to the right. Add 1 to the digit to be rounded if the digit to the right is 5 or higher. Otherwise retain the digit.



- A. Round the following to the indicated place value:
 - 1) 0.6542 (nearest tenths)
 2) 0.9568 (nearest thousandths)
 3) 10.2346 (nearest hundredths)
 4) 73.6834 (nearest thousandths)
 5) 25.1934 (nearest tenths)
- B. Complete the table.

		Nearest	Nearest	Nearest
		Tenths	Hundredths	Thousandths
1)	89.6273			
2)	0.8495			
3)	5.0637			
4)	347.9641			
5)	93.4672			





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

- 16-20 Excellent! You may now proceed to the next lesson.
- 11-15 You need to review the processes you missed.
- 0-10 You need to repeat the whole process. Ask your teacher or elder to help you.

