



3rd Grade | Unit 4



### **MATH 304**

# ROUNDING, ESTIMATING, AND STORY PROBLEMS

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NOTE to teachers, parents, and students:

As part of a continuing effort to improve the LIFEPAC curriculum a new layout of this unit has been produced. The content of this unit has not changed but the page numbers referenced in the Teacher Notes of the Teacher's Guide may no longer match.

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## ROUNDING, ESTIMATING, AND STORY PROBLEMS

This unit will review and introduce new concepts on topics such as Roman numerals and subtraction with borrowing to the hundreds' place. Can you count and read numbers up to 9,999? Do you understand place value? These concepts will both be learned and practiced. Adding and subtracting fractions, rounding and estimation, and measuring to ¼ inch are just a few of the other concepts focused on in this unit. There will be additional practice in estimating addition with rounding and solving horizontal addition and subtraction problems.

#### **Unit Objectives**

**Read these objectives.** The objectives tell you what you will be able to do when you have successfully completed this LIFEPAC<sup>®</sup>.

- 1. I can read and write numbers to thousands' place.
- 2. I can learn place value to thousands' place.
- 3. I can round numbers to tens' place.
- 4. I can estimate in addition using rounded numbers.
- 5. I can subtract with borrowing from both tens' place and hundreds' place.
- 6. I can measure to the half-inch and quarter-inch.
- 7. I can solve horizontal addition and subtraction problems.
- 8. I can learn about Roman and Arabic numerals.
- 9. I can add and subtract fractions.

## 1. NUMBERS TO THOUSANDS' PLACE

In this section, you will learn about numbers in the thousands. You will practice adding numbers in the hundreds. You will also review even and odd numbers and skip-counting.

#### Thousands' Place

When we are counting and we have used all the digits, we start over again with the 1. But each time we start over again, we use another 0.

1 is in the ones' place.
no zeros
1-digit number
one

1 is in the tens' place. one zero 2-digit number ten

10

1 is in the hundreds' place.
two zeros
3-digit number

one hundred

100

When we have counted to 999, we must start over again. After ones' place, tens' place, and hundreds' place, there is thousands' place.

1,000
1 is in the thousands'
place.
three zeros
4-digit number
one thousand

hundreds' place tens' place
thousands' place 7,843 cones' place

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	Complete these activities.
1.1	Write the ten digits.
1.2	Zero is a special digit. We call it a
1.3	Write the place of each underlined digit.
	<u>1</u> ,576 8,1 <u>5</u> 4
	6, <u>3</u> 01 9,63 <u>2</u>
	7 <u>9</u> <u>3</u> 94
	2 <u>7</u> 0 <u>1</u> ,847

#### The more digits a number has, the greater its value.

1.4 Write in number order

> 1,000 10 100 1 48 270 1,320 8

Look at the numbers that are in thousands' place. A comma separates thousands' place from hundreds' place. The comma makes the number easier to read.

1.5 Write a number with ...

> 1 in ones' place, 3 in tens' place, 6 in hundreds' place, and 9 in thousands' place. 4 in thousands' place, 2 in hundreds' place, 8 in tens' place, and 0 in ones' place.

6 in tens' place, 9 in thousands' place, 4 in ones' place, and 0 in hundreds' place.

#### We count thousands by following the number pattern we have learned.

1.001

1,002

1,003 ... 1,483

1,484

1,485 ...

We say one thousand, one; one thousand, two; one thousand, three. We say one thousand, four hundred eighty-three; one thousand, four hundred eighty-four; one thousand, four hundred eighty-five.

**1.6** Write the numbers that come after...

1,005 1,006

1,621 1,622

1,032 1,033 \_\_\_\_\_

#### **Addition**



#### Complete this activity.

**1.7** Add. Remember to carry.

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#### We can learn to add three numbers to hundreds' place.

989

Add ones' place.

$$3 + 5 + 1 = 9$$

3+5+1=9 There is no number to

carry.

$$6 + 0 + 2 = 8$$

There is no number to

carry.

Add hundreds' place. 
$$2+4+3=9$$

$$2 + 4 + 3 = 9$$

There is no number to

carry.



#### Complete these activities.

1.8

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423	355	372	234
301	243	115	261
+ 261	+ 501	+ 302	+803
653	526	312	653
214	130	202	204
+ 521	+ 443	+ 530	+ 500

**1.9** Solve the problem. Think the answer. Write the answer.

**1.10** Write the place of the underlined digit. Write its value.

hun	ndreds	tens	one	es
8 <u>5</u> 3			 9 <u>5</u> 25	
9 <u>0</u> 5			38	

**1.11** Write the missing numbers.

10, \_\_\_\_\_, 30, \_\_\_\_, \_\_\_, 60, \_\_\_\_, 80, \_\_\_\_, \_\_\_, ... 5, \_\_\_\_, 20, \_\_\_\_, \_\_\_, 40, \_\_\_\_, 50, ...

2, 4, \_\_\_\_\_, \_\_\_, 12, \_\_\_\_, 18, \_\_\_\_, ...

When we count by tens, the number always ends in \_\_\_\_\_\_.

When we count by fives, the number always ends in \_\_\_\_\_ or

\_\_\_\_·

When we count by twos, the number always ends in \_\_\_\_\_,

\_\_\_\_\_, \_\_\_\_, or \_\_\_\_.

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Even and odd numbers are the same as counting by twos.

**1.12** Write (E) for even or (O) for odd.

6 \_\_\_\_\_ 63 \_\_\_\_

76 \_\_\_\_\_ 9 \_\_\_\_ 80 \_\_\_\_ 41 \_\_\_\_

For this Self Test, study what you have read and done. The Self Test will check what you remember.

#### **SELF TEST 1**

**Complete these activities** (each answer counts 1 point, except where otherwise noted).

ones tens hundreds thousands

**1.01** Write the place of each underlined digit.

1,<u>4</u>79 \_\_\_\_\_ 8,83<u>2</u> \_\_\_\_\_

<u>2</u>,832 \_\_\_\_\_ 4,7<u>7</u>3 \_\_\_\_\_

**1.02** Write a number with ...

7 in the tens' place, 8 in the thousands' place,

2 in the ones' place, and 0 in the hundreds' place. \_\_\_\_\_

**1.03** Write the numbers that come after... (2 points)

1,032 1,033

**1.04** Solve the problem. Think the answer. Write the answer.

2+5+8=\_\_\_\_

4+8+7=

9+3+6=\_\_\_\_

2+3+6=\_\_\_\_

**1.05** Add. (2 points each)

250 577

358 577 +675 +259 352 124 + 603

439 + 268 863 + 245



Teacher check:

Score

Initials

Date

17 21



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