



4th Grade | Unit 1



MATH 401

WHOLE NUMBERS AND FRACTIONS

1.	Place Value to 1,000's 3 Place Value 3 Addition and Subtraction 5 Self Test 1 11
2.	Multiplication Facts, 1 to 5
3.	Number Words through Thousands 22 Patterns 26 Cardinal and Ordinal Numbers 27 Self Test 3 30
4.	Read and Write Fractions 32 Dollars, Cents, and Coins 37 Self Test 4 40
5.	Application and Review 42 Self Test 5 48 LIFEPAC Test Pull-out

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1. PLACE VALUE TO 1,000'S

There are 26 letters in the alphabet, but only 10 digits to our number system.

The digits are 0, 1, 2, 3, 4, 5, 6, 7, 8, 9.

Digits mean the same thing to mathematics as the letters of the alphabet mean to reading. Letters can be arranged to form words, and digits can be arranged to form numbers.

Objectives

Read these objectives. When you have completed this section, you should be able to:

- Know and understand digits and place value to 1,000.
- Review addition and subtraction.

Place Value

Digits have value because of their place in the number.



Think of all the numbers you can write using 10 digits.



Complete these activities

	•		
1.1	Write a number using 3 as th	ne first digit, 4 as	the second digit, and 7 as the last
	digit		
	What position is the 3 in?		_the 4?
	the 7?		
	Write the number in words		
The dig	it zero has no value. We call it	a place holder .	
1.2	Using the number you have v	written in 1.1, put	a zero between the digits
	3 and 4	_	
	What position is the 3 in?		_the 0?
	the 4?t	the 7?	
	Write the number in words		
Numbe	rs that have more than one di	git are called mul	ti-digit numbers.
1.3	Write a multi-digit number w	vith 8 in the thous	ands' place, 4 in the ones' place,
	7 in the tens' place, and 0 in	the hundreds' pla	ace

Addition and Subtraction

1.4 Write the answers to the facts.

You should know all of your addition and subtraction facts by now.

WHOLE NUMBERS AND FRACTIONS | Unit 1

The numbers that we add have special names.

In addition, the numbers that are added are named **addends**, and the answer is named the **sum**.



Find the sum of these addends.

The numbers that we subtract have special names.

In subtraction, the number that we begin with is named the **minuend**, the number being subtracted is named the **subtrahend**, and the answer is the difference.



Find the difference of the minuend and subtrahend.

When we count we use the digits 0, 1, 2, 3, 4, 5, 6, 7, 8, 9.

When we have used all of the digits once, we start over again and add a zero.

ones	tens	hundreds	thousands
1	10	100	1,000
1-digit number	2-digit number	3-digit number	4-digit number



Complete these activities.

1.13 Write the number that comes after ...

0	9	99	999
5	35	297	1,392
7	84	599	4,586

1.14 Write the number that comes before ...

4	60	729	 5,643
8	14	400	 8,451
5	56	932	 9,643

1.15 Write the next numbers in order. Remember commas for thousands.

7,	 /	/	/	,	
48,	 	/		1	
392,	 			11	
6,457,	 /	<i>I</i> ————————————————————————————————————	<i>!</i> ————	1	

1.16 Write six facts with the answer of 13.

Digits have value because of their place in the number.



We write "how many" and then we show the value.

thousands		hundreds		tens		ones
8,635 = 8	+	6	+	3	+	5
= 8,000	+	600	+	30	+	5



Complete these activities.

1.17 Write "how many" for each number and then tell the value of the digit (expand).

	thousands		hundreds		tens		ones
9,402 =		+		+		+	
=		+		+		+	
	thousands		hundreds		tens		ones
3,721 =		+		+		+	
=		+		+		+	
	thousands		hundreds		tens		ones
6,118 =		+		+		+	
=		+		+		+	

1.18 Do you remember? Tell how many.

WHOLE NUMBERS AND FRACTIONS | Unit 1

1.19 Write six facts with the answer of 5.

_	_	_	_	_	_
 5	 5	 5	 5	5	5



Review the material in this section to prepare for the Self Test. The Self Test will check your understanding of this section. Any items you miss on this test will show you what areas you will need to restudy in order to prepare for the unit test.

SELF TEST 1

iete ti	hese activities (each answ	ver blank, T point).	
List	t all of the digits		
Wr	ite a multi-digit number us	sing the digits 5, 8, 6, c	and 3
Wh	nat is the <i>place</i> of the digit	-	
a.	4 in the number 485?		_
b.	7 in the number 703?		-
C.	6 in the number 2,596?		_
d.	8 in the number 8,905?		-
Wh	nat is the <i>value</i> of the digit	·	
a.	6 in the number 632?		-
b.	3 in the number 839?		-
C.	2 in the number 7,512?		_
d.	4 in the number 4,135?		_
e.	0 in the number 5,046?		_
Wh	nat is the purpose of 0 in c	number?	
Wr	rite the digit 1 in the tens' ¡	place, 6 in the ones' pla	ace, 8 in the thousands'
pla	ace, and 2 in the hundreds	s' place.	
Wr	rite the number that come	es after	
76	5.	49	999
Wr	ite the number that come	es before	
90	8	00	703
the n	ext numbers in order (eac	ch row of answers, 3 pc	pints).
3	357,,		
	538,		

Complete these activities (each answer, 1 point).

- **1.012** In problems 1.010 and 1.011, what number is ...
 - a. an addend? _____
 - b. the difference? _____
 - c. the subtrahend?_____
 - d. the minuend?_____
 - e. the sum?____

Write "how many" for each number and then tell the value of the digit (each row of answers, 1 point).

Tell how many (each answer, 1 point).

Complete these activities (each answer, 1 point).





MAT_Gr3-5



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