

3rd Grade | Unit 5



MATH 305

PLANE SHAPES AND SYMMETRY

	Introduction 3	
1.	Working with Number Numbers 4 Cardinal and Ordinal Numbers 8	Fractions 9
2.	Place Value, Addition Subtraction Place Value 13 Addition with Carry 14	
3.	Temperature 16 Plane Shapes Symmetry 25 Rounding 26 Estimation 27	Self Test 2 22 24 Measurement 28
4.	Patterns Odd and Even Numbers 34 Checking Addition and Subtraction 37	Roman Numerals 39 Self Test 4 42
5.	Application and Review Self Test 5 51 LIFEPAC Test Pull-out	ew

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.

Author:

Carol Bauler, B.A.

Editor:

Alan Christopherson, M.S.

Media Credits:

Page 3: © agsandrew, iStock, Thinkstock; **4:** © Zoonar, Thinkstock; **13:** © Arkadiy54321, iStock, Thinkstock; **24:** © Stavklem, iStock, Thinkstock; **34:** © Velirina, iStock, Thinkstock; **44:** © VladNikon, iStock, Thinkstock



804 N. 2nd Ave. E. Rock Rapids, IA 51246-1759

© MCMXCVIII by Alpha Omega Publications, Inc. All rights reserved. LIFEPAC is a registered trademark of Alpha Omega Publications, Inc.

All trademarks and/or service marks referenced in this material are the property of their respective owners. Alpha Omega Publications, Inc. makes no claim of ownership to any trademarks and/or service marks other than their own and their affiliates, and makes no claim of affiliation to any companies whose trademarks may be listed in this material, other than their own.

PLANE SHAPES AND SYMMETRY

You have already learned some things about numbers. You learned about place values, addition and subtraction, and how to recognize even and odd numbers. You also learned how to put numbers in proper order. In this LIFEPAC®, you will continue practicing these skills. You will learn about different types of numbers, plane shapes and symmetry, and how to round and estimate. You will also learn about temperature, graphing data, and taking measurements.

Objectives

Read these objectives. The objectives tell you what you will be able to do when you have successfully completed this LIFEPAC.

- 1. I can name whole numbers and fractions.
- 2. I can write number sentences.
- 3. I can expand numbers to thousands' place.
- 4. I can read a Fahrenheit thermometer.
- 5. I can collect data and post it to a bar graph.
- 6. I can draw lines of symmetry.
- 7. I can round numbers to hundreds' place.
- 8. I can estimate in addition using rounded numbers.
- 9. I can learn about linear and square inches.
- 10. I can measure perimeter.
- 11. I can learn rules for adding even and odd numbers.

1. WORKING WITH NUMBERS

In earlier units, you learned about number sentences and digits. You also learned to name the parts of a problem. In this section, you will practice these skills and study some new things about numbers.

Numbers

Let's review some of the number skills you have already learned.



Complete these activities.

7,636

	Complete	tilese acti	vicies.				
1.1	Write the missing cor 2638 4020		nmas where they bel 45 6999		oelong. 726 542		
1.2			fore or afte				
	1(00	362	52		1,433	
	73	_ 249		899	1,65	7	
1.3	Cross out t number(s)		(s) that do	not belong.	Write the c	orrect	
	3,001	3,002	3,013	3,004	3,050	3,006	
	5,286	5,278	5,288	5,289	5,209	5,291	

7,637

7,338

7,639

7,640

7,653

- Write the largest number. 1.4
- 3, 5 _____ 4, 0, 6 ____ 2, 7, 8, 3 ____

- 3, 9, 5 _____ 6, 1, 9, 4 ____
- Circle the even numbers. 1.5
 - a. 4
- b. 9
- c. 33
- d. 52

- e. 476 f. 585 g. 1,588 h. 6,395
- Write the place of the underlined digit. 1.6

ones	tens	hundreds	thousands
3 <u>6</u> 7	<u>5</u> 42	80	<u>3</u>
1,2 <u>6</u> 3	<u>5</u> ,490	3, <u>9</u> 5	52
8,05 <u>2</u>	4, <u>0</u> 01	6,1 <u>4</u>	2

We can write number sentences in words.

plus minus

- + 26 + 52 = 78 Twenty-six plus fifty-two equals seventy-eight.
- equal
- \sim 47 35 = 12 Forty-seven minus thirty-five equals twelve.

Write the number sentences in words. Use capital letters and 1.7 periods.





Complete these activities.

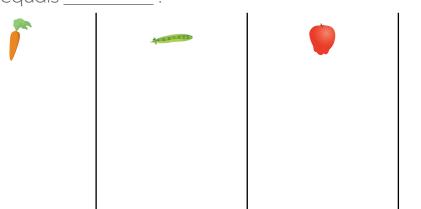
1.8 Read the problem in words. Write vertically in numbers in the correct column. Add or subtract. Write your answers on the blanks in words to complete the number sentences.

Thirty-two plus sixty-three equals _____.

Four hundred twenty-nine plus two hundred fifteen equals .

Seventy-six minus fifty-one equals _____.

Six hundred forty-eight minus one hundred twenty-two equals ______.



1.9 Write the operation signs. (+, -, =)

7____6__13 5____10

16_____9 12____9

1.10 Write the names for each part of the addition and subtraction problems.

 minuend difference
 sum subtrahend

 578
 643

 + 321
 -541

 899
 102

1.11 Add or subtract. Remember to carry. Remember to borrow.

 3
 42
 29
 321
 502

 7
 56
 56
 403
 312

 +9
 +75
 +42
 +264
 +161

67 625 482 256 569 +34 +316 +365 +387 +234

76 47 624 836 723 -53 -28 -417 -381 -546

 67
 84
 292
 914
 836

 -20
 -36
 -236
 -653
 -258

Cardinal and Ordinal Numbers

When we count, we use cardinal numbers.

When we tell the order, we use ordinal numbers.

1st, 2nd, 3rd, 4th, 5th, ...



Complete these activities.

1.12 Match the ordinal numbers to the ordinal words.

1st	•	second	6th		eighth
2nd	•	fifth	7th		tenth
3rd		fourth	8th		ninth
4th	•	first	9th		sixth
5th	•	third	10th		seventh

If we follow the pattern, we can write every cardinal number as an ordinal number.

1.13 Match the ordinal number words to the cardinal numbers.

twenty-third	• •	87	thirteenth		45
fifty-sixth	• •	32	sixtieth		18
ninety-first	• •	23	seventy-fourth		13
thirty-second	• •	56	forty-fifth		74
eighty-seventh	•	91	eighteenth		60

1.14 Write the standard measurement for length.

1 foot = ____ inches 1 yard = ____ inches 1 yard = ____ feet

Write the time shown on the clocks. 1.15









1.16 Add 7 to each number.

Fractions

Like whole numbers, fractions can be written in digits or words.



Complete these activities.

Write the name for each part of the fraction on the lines. 1.17

3
 4

numerator denominator fraction bar

1.18 Write the fractions in digits.

four-sevenths one-half

seven-twelfths

five-ninths three-fifteenths two-eighths

PLANE SHAPES AND SYMMETRY | Unit 5

1.19 Write the fractions in words.

 2

 8

 3

 5

 4

 7

1.20 Find the pattern. Write what comes next.

 $\frac{1}{4}, \frac{2}{4}, \dots, \dots \qquad \frac{2}{5}, \frac{3}{5}, \dots, \dots \qquad \frac{3}{8}, \frac{4}{8}, \dots, \dots$ $\frac{7}{15}, \frac{8}{15}, \dots, \dots \qquad \frac{5}{9}, \frac{6}{9}, \dots, \dots \qquad \frac{1}{6}, \frac{2}{6}, \dots, \dots$

1.21 Add or subtract. Follow the steps.

Draw the fraction bar.

Write the denominator.

Add or subtract the numerator.

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).

Write the missing commas. Cross out number(s) that do not belong. 1.01 Write the correct number(s) above. (4 points)

3506

3507

3580

3509

3501

3511

1.02 Circle the even numbers.

Write the place of the underlined digits. (6 points)

6

15

497

162

357

1,584

Read the problem in words. Write the numbers vertically in the 1.03 correct box. Add or subtract. Write your answers on the blanks in words to complete the number sentences.



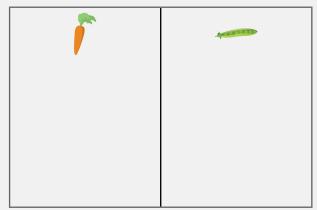
Eighty-five plus thirty-six

equals .



Seventy-eight minus forty-

one equals _____.



1.04 Add or subtract. Remember to carry. Remember to borrow.

17 +34

236 421 +540

743 + 279 46

- 29

863 - 538 725

- 487

PLANE SHAPES AND SYMMETRY | Unit 5

- **1.05** Match by drawing a line.
 - forty-third

13

seventy-sixth

32

- thirteenth

43

17

- sixty-eighth
- thirty-second •

68

seventeenth

76

1.06 Add or subtract.

$$\frac{2}{5}$$
 + $\frac{1}{5}$

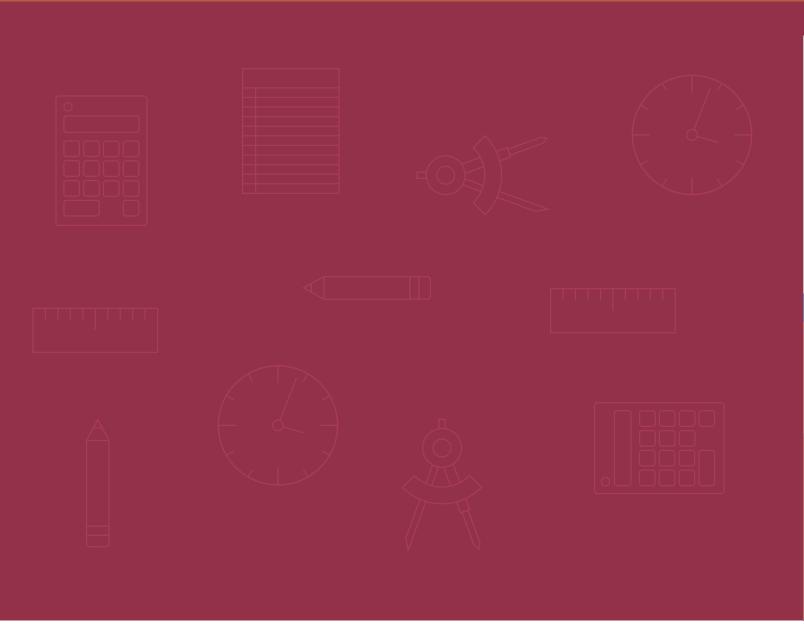
$$+ \frac{\frac{4}{7}}{\frac{2}{7}}$$

Teacher check:

Score _____

Initials

Date _____



MAT_Gr3-5



804 N. 2nd Ave. E. Rock Rapids, IA 51246-1759

800-622-3070 www.aop.com

