



3rd Grade | Unit 10



MATH 310 **PROBABILITY, UNITS, AND SHAPES**

Introduction **|3**

1.	Whole Numbers and Fra	actions4
	Multiples and Rounding 4 Addition and Subtraction 7	Multiplication 9 Self Test 1 11
2.	Number and Multiplicat Ordinal Numbers 13 Even and Odd 14	ion Facts
3.	Fractions and Missing N Fractions 22 Decimals 23 Standard Measure 26	umbers
4.	Shapes and Patterns Time 31 Geometry 32 Patterns 34	
5.	Application and Review Unequal Equations 41 Parentheses 42 LIFEPAC Test Pull-out	

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PROBABILITY, UNITS, AND SHAPES

This entire unit is a review of the concepts that have been covered in this course. Some of the concepts will be expanded slightly and applied to new situations. Addition, subtraction, and rounding of whole numbers will be reviewed. There will be additional practice in the addition and subtraction of fractions and mixed numbers. You will learn how to express probability as a fraction, how to make two sides of a problem equal, and how to solve problems with parentheses. The multiplication facts studied up to this point will be reviewed. In this LIFEPAC[®], you will also practice the skills of perimeter, area, time, Roman numerals, and standard measure.

Objectives

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

- 1. I can round numbers to thousands' place.
- 2. I can estimate addition and subtraction problems to thousands' place.
- 3. I can add and subtract fractions vertically and horizontally.
- 4. I can learn more about probability.
- 5. I can learn about equations.
- 6. I can learn to make two sides of a problem equal to each other.
- 7. I can learn to use parentheses in two-step problems.
- 8. I can study the relationship between perimeter and area measurement.

1. WHOLE NUMBERS AND FRACTIONS

To start this unit, you will review rounding and counting by tens and hundreds. You will find sensible answers and work some word problems. You will also practice adding and subtracting fractions.

Multiples and Rounding



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. We can decide whether or not we have sensible answers.

Complete the following activities.

1.3 Round to tens' place or hundreds' place. Add or subtract both problems. Compare. Is your answer sensible?

92 <u>+ 36</u>	84 + 76	521 + 473	675 <u>+ 182</u>
72	59	792	410
48		<u> </u>	

1.4 Round the numbers. Estimate the answers.

Jenny was counting paper plates for a party. She had 13 green plates, 18 orange plates, 27 yellow plates, and 21 blue plates. *About* how many plates did she have altogether?



The class program was well attended. 221 people came the first night, 310 came the second night, and 425 came the third night. *About* how many people attended the class program?

PROBABILITY, UNITS, AND SHAPES | Unit 10

1.5	Count by thousands. Write the numbers.		
	1,000,,		
	///	/	
1.6	Round to thousands' place.		
	4,865	7,540	
	8,500	1,231	

We can decide whether or not we have sensible answers.

1.7 Round to thousands' place. Add or subtract both problems.Compare. Is your answer sensible?

4,635	 1,813	 3,002	
+ 2,330	 + 2,790	 + 4,221	

5,836	 9,226	 2,930	
<u> </u>	 - 4,841	 - 1,045	

1.8 Round the numbers.
Estimate the answers.
Jesse was comparing the population in three neighboring towns. The populations were 3,486, 2,320, and 3,891. About how many people lived in the three

neighboring towns?

+_____+

Casey's father travelled by plane for his work. He travelled 2,349 miles in January, 1,923 miles in February, and 4,231 miles in March. *About* how many miles did Casey's father travel in three months?

+_____=

Addition and Subtraction

1.9	Add. 2 6 <u>+ 3</u>	9 8 + 5	47 26 <u>+ 32</u>	58 95 <u>+ 40</u>	3 293 5 651 <u>2 + 128</u>
	2,955	5,8	862	2,761	7,084
	<u>+ 3,063</u>	<u>+ 2,0</u>	9 <u>95</u>	<u>+ 4,382</u>	<u>+ 1,036</u>
	3,265	2,5	594	5,726	2,100
	<u>+ 4,538</u>	<u>+ 3,0</u>	9 <u>61</u>	<u>+ 3,859</u>	+ 5,956

1.10 Follow the steps to add fractions.

Draw the fraction bar. Write the denominator. Add the numerators.

$+ \frac{\frac{1}{4}}{\frac{2}{4}}$	$\begin{array}{c} \frac{3}{8} \\ + \frac{4}{8} \\ - \end{array} + \\ - \end{array}$	2 7 3 7	$\frac{\frac{1}{8} + \frac{5}{8}}{\frac{1}{12} + \frac{2}{12}} = -$ $\frac{\frac{4}{2} + \frac{5}{2}}{\frac{5}{12}} = -$	
$+ \frac{1}{3}$	$\frac{4}{5}$ + $\frac{1}{5}$ +	3 6 3 6	$\frac{1}{2} + \frac{1}{2} = $	
Subtract.				
74 <u>- 36</u>	580 <u>- 394</u>	706 <u>- 357</u>	928 <u>- 361</u>	546 <u>- 307</u>
4,369 <u>- 2,194</u>	2,031 <u>- 1,462</u>	1 <u>2</u>	8,506 <u>- 2,354</u>	9,052 <u>- 6,548</u>
6,003 - 2 495	8,567	7	3,060 - 1,154	7,395 - 4.627

1.11

1.12 Follow the steps to subtract fractions.

Draw the fraction bar. Write the denominator. Subtract the numerators.

$-\frac{\frac{5}{8}}{\frac{1}{8}}$	$-\frac{\frac{4}{7}}{\frac{2}{7}}$	<u>3</u> 5 - <u>1</u> 5	$\frac{5}{6} - \frac{4}{6} = \underline{\qquad}$ $\frac{8}{12} - \frac{3}{12} = \underline{\qquad}$ $\frac{2}{3} - \frac{1}{3} = \underline{\qquad}$ $\frac{7}{8} - \frac{5}{8} = \underline{\qquad}$
<u>9</u> 10	<u>6</u> 9	<u>2</u> 4	
$-\frac{4}{10}$	- 3/9	$-\frac{1}{4}$	

Multiplication

You have learned to count by 2, 3, 4, 5, and 10. You have learned the multiplication facts for 2, 3, 4, 5, and 10. The answers to the multiplication facts are the multiples of the number.



PROBABILITY, UNITS, AND SHAPES | Unit 10





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).

1.01 Round the numbers. Add or subtract both problems. (4 points each)



1.02 Round the numbers. Estimate the answer.Casey's father travelled by plane for his work. He travelled 3,776

miles in April, 1,224 miles in May, and 2,621 miles in June. *About* how many miles did Casey's father travel in three months?

PROBABILITY, UNITS, AND SHAPES | Unit 10

1.03 Write the multiples from 1 times to 10 times each number. (10 points)



1.05	Subtract.			
	$-\frac{\frac{7}{9}}{\frac{2}{9}}$	$-\frac{\frac{8}{12}}{\frac{5}{12}}$	$-\frac{5}{10}$ $-\frac{3}{10}$	$\frac{6}{8} - \frac{4}{8} =$





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