Mathematics 200
Teacher's Guide

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Alpha Omega Publications

300 North McKemy Avenue, Chandler, Arizona 85226-2618

LIFEPAC GOLD

ALPHA OMEGA PUBLICATIONS

CURRICULUM

OVERVIEW

MATHEMATICS

Curriculum Overview
Grades K-12

Kindergarten

Lessons

1-40	41-80	81-120	121-160
Directions-right, left, high,low,etc. **Comparisons**-big, little,alike,different **Matching** **Cardinal Numbers**- to 9 **Colors**-red,blue,green, yellow, brown,purple **Shapes**-circle,square, rectangle,triangle **Number Order** **Before and After** **Ordinal Numbers**- to 9th **Problem Solving**	**Directions**-right,left, high,low,etc. **Comparisons**-big, little,alike,different **Matching** **Cardinal Numbers**- to 12 **Colors**-orange **Shapes**-circle,square, rectangle,triangle **Number Order** **Before and After** **Ordinal Numbers**- to 9th **Problem Solving** **Number Words**- to nine **Addition**-to 9	**Directions**-right,left, high,low,etc. **Comparisons**-big, little,alike,different **Matching** **Cardinal Numbers**- to 19 **Colors**-black,white **Shapes**-circle square, rectangle,triangle **Number Order** **Before and After** **Ordinal Numbers**- to 9th **Problem Solving** **Number Words**- to nine **Addition**-to 10 and multiples of 10 **Subtraction**-to 9 **Place Value** **Time/Calendar**	**Directions**-right,left, high,low,etc. **Comparisons**-big, little,alike,different **Matching** **Cardinal Numbers**- to 100 **Colors**-pink **Shapes**-circle,square, rectangle,triangle **Number Order** **Before and After** **Ordinal Numbers**- to 9th **Problem Solving** **Number Words**- to nine **Addition**-to 10 and multiples of 10 **Subtraction**-to 10 **Place Value** **Time/Calendar** **Money** **Skip Counting**-2's, 5's, 10's **Greater/ Less than**

Mathematics LIFEPAC Overview

	Grade 1	Grade 2	Grade 3
LIFEPAC 1	NUMBERS TO 99 • Number order, skip-count • Add, subtract to 9 • Story problems • Measurements, shapes	NUMBERS TO 100 • Numbers and words to 100 • Operation symbols +, −, =, >, < • Add, subtract, story problems • Place value, fact families	NUMBERS TO 999 • Digits, place value to 999 • Add, subtract, time • Linear measurements, dozen • Operation symbols +, −, =, ≠, >, <
LIFEPAC 2	NUMBERS TO 99 • Add, subtract to 10 • Number words • Place value, shapes • Patterns, sequencing, estimation	NUMBERS TO 200 • Numbers and words to 200 • Add, subtract, even and odd • Skip-count 2's, 5's, 10's, shapes • Ordinal numbers, fractions, money	NUMBERS TO 999 • Fact families, patterns, fractions • Add, subtract - carry, borrow • Skip count 2's, 5's, 10's • Money, shapes, lines, even, odd
LIFEPAC 3	NUMBERS TO 100 • Number sentences, • Fractions, oral directions • Story problems • Time, symbols =, ≠	NUMBERS TO 200 • Add w/ carry to 10's place • Subtract, standard measurements • Flat shapes, money, AM/PM • Rounding to 10's place	NUMBERS TO 999 • Add 3 numbers w/ carry • Coins, weight, volume, AM/PM • Fractions, oral instructions • Skip count 3's, subtract w/ borrow
LIFEPAC 4	NUMBERS TO 100 • Add to 18, place value • Skip-count, even and odd • Money • Shapes, measurement	NUMBERS TO 999 • Numbers and words to 999 • Add, subtract, place value • Calendar, making change • Measurements, solid shapes	NUMBERS TO 9,999 • Place value to 9,999 • Rounding to 10's, estimation • Add and subtract fractions • Roman numerals, 1/4 inch
LIFEPAC 5	NUMBERS TO 100 • Add 3 numbers - 1 digit • Ordinal numbers, fractions • Time, number line • Estimation, charts	NUMBERS TO 999 • Data and bar graphs, shapes • Add, subtract to 100's • Skip-count 3's, place value to 100's • Add fractions, temperature	NUMBERS TO 9,999 • Number sentences, temperature • Rounding to 100's, estimation • Perimeter, square inch • Bar graph, symmetry, even/odd rules
LIFEPAC 6	NUMBERS TO 100 • Number words to 99 • Add 2 numbers - 2 digit • Symbols >, < • Fractions, shapes	NUMBERS TO 999 • Measurements, perimeter • Time, money • Subtract w/ borrow from 10's place • Add, subtract fractions	NUMBERS TO 9,999 • Add, subtract to 9,999 • Multiples, times facts for 2 • Area, equivalent fractions, money • Line graph, segments, angles
LIFEPAC 7	NUMBERS TO 200 • Number order, place value • Subtract to 12 • Operation signs • Estimation, graphs, time	NUMBERS TO 999 • Add w/ carry to 100's place • Fractions as words • Number order in books • Rounding and estimation	NUMBERS TO 9,999 • Times facts for 5, missing numbers • Mixed numbers - add, subtract • Subtract with 0's in minuend • Circle graph, probability
LIFEPAC 8	NUMBERS TO 200 • Addition, subtract to 18 • Group counting • Fractions, shapes • Time, measurements	NUMBERS TO 999 • Add, subtract, measurements • Group count, 'think' answers • Convert coins, length, width • Directions-N, S, E, W	NUMBERS TO 9,999 • Times facts for 3, 10 - multiples of 4 • Convert units of measurement • Decimals, directions, length, width • Picture graph, missing addend
LIFEPAC 9	NUMBERS TO 200 • Add 3 numbers - 2 digit • Fact families • Sensible answers • Subtract 2 numbers - 2 digit	NUMBERS TO 999 • Area and square measurement • Add 3 numbers - 20 digit w/ carry • Add coins and convert to cents • Fractions, quarter-inch	NUMBERS TO 9,999 • Add, subtract whole numbers, fractions, mixed numbers • Standard measurements, metrics • Operation symbols, times facts for 4
LIFEPAC 10	NUMBERS TO 200 • Add, subtract, place value • Directions - N, S, E, W • Fractions • Patterns	NUMBERS TO 999 • Rules for even and odd • Round numbers to 100's place • Time - digital, sensible answers • Add 3 numbers - 3 digit	NUMBERS TO 9,999 • Add, subtract, times facts 2,3,4,5,10 • Rounding to 1,000's, estimation • Probability, equations, parentheses • Perimeter, area

	Grade 4	Grade 5	Grade 6
LIFEPAC 1	WHOLE NUMBERS & FRACTIONS • Naming whole numbers • Naming Fractions • Sequencing patterns • Numbers to 1,000	WHOLE NUMBERS & FRACTIONS • Operations & symbols • Fraction language • Grouping, patterns, sequencing • Rounding & estimation	FRACTIONS & DECIMALS • Number to billions' place • Add & subtract fractions • Add & subtract decimals • Read and write Fractions
LIFEPAC 2	WHOLE NUMBERS & FRACTIONS • Operation symbols • Multiplication - 1 digit multiplier • Fractions - addition & subtraction • Numbers to 10,000	WHOLE NUMBERS & FRACTIONS • Multiplication & division • Fractions - +, −, simplify • Plane & solid shapes • Symbol language	FINDING COMMON DENOMINATORS • Prime factors • Fractions with unlike denominators • Exponential notation • Add & subtract mixed numbers
LIFEPAC 3	WHOLE NUMBERS & FRACTIONS • Multiplication with carrying • Rounding & estimation • Sequencing fractions • Numbers to 100,000	WHOLE NUMBERS & FRACTIONS • Short division • Lowest common multiple • Perimeter & area • Properties of addition	MULTIPLYING MIXED NUMBERS • Multiply mixed numbers • Divide decimals • Bar and line graphs • Converting fractions & decimals
LIFEPAC 4	LINES & SHAPES • Plane & solid shapes • Lines & line segments • Addition & subtraction • Multiplication with carrying	WHOLE NUMBERS • Lines - shapes - circles • Symmetric - congruent - similar • Decimal place value • Properties of multiplication	DIVIDING MIXED NUMBERS • Divide mixed numbers • Area and perimeter • Standard measurements
LIFEPAC 5	WHOLE NUMBERS • Division - 1 digit divisor • Families of facts • Standard measurements • Number grouping	WHOLE NUMBERS & FRACTIONS • Multiply & divide by 10, 100, 1,000 • Standard measurements • Rate problems • Whole number & fraction operations	METRIC MEASURE • Metric measures • Plane & solid shapes • Multi-operation problems • Roman Numerals
LIFEPAC 6	WHOLE NUMBERS & FRACTIONS • Division - 1 digit with remainder • Factors & multiples • Fractions - improper & mixed • Equivalent fractions	FRACTIONS & DECIMALS • Multiplication of fractions • Reading decimal numbers • Adding & subtracting decimals • Multiplication - decimals	LCM & GCF • LCM, GCF • Fraction and decimal equivalents • Percent • Variables, functions & formulas
LIFEPAC 7	WHOLE NUMBERS & FRACTIONS • Multiplication - 2 digit multiplier • Simplifying fractions • Averages • Decimals in money problems	WHOLE NUMBERS & FRACTIONS • Division - 2 digit divisor • Metric units • Multiplication - mixed numbers • Multiplication - decimals	INTEGERS, RATIO & PROPORTION • Positive and negative integers • Ratio & proportion • Fractions, decimals & percents • Statistics
LIFEPAC 8	WHOLE NUMBERS & FRACTIONS • Division 1 digit divisor • Fractions - unlike denominators • Metric units • Whole numbers - +, −, x, ÷	WHOLE NUMBERS • Calculators & whole numbers • Calculators & decimals • Estimation • Prime factors	PROBABILITY & GRAPHING • Probability • Graphs • Metric and standard units • Square root
LIFEPAC 9	DECIMALS & FRACTIONS • Reading and writing decimals • Mixed numbers - +, − • Cross multiplication • Estimation	FRACTIONS & DECIMALS • Division - fractions • Division - decimals • Ratios & ordered pairs • Converting fractions to decimals	CALCULATORS & ESTIMATION • Calculators • Estimation • Geometric symbols & shapes • Missing number problems
LIFEPAC 10	PROBLEM SOLVING • Estimation & data gathering • Charts & Graphs • Review numbers to 100,000 • Whole numbers - +, −, x, ÷	PROBLEM SOLVING • Probability & data gathering • Charts & graphs • Review numbers to 100 million • Fractions & decimals - +, −, x, ÷	INTEGERS & OPERATIONS • Mental arithmetic • Fraction operations • Variables & properties • Number lines

Mathematics LIFEPAC Overview

	Grade 7	Grade 8	Grade 9
LIFEPAC 1	WHOLE NUMBERS • Number concepts • Addition • Subtraction • Applications	WHOLE NUMBERS • The set of whole numbers • Graphs • Operations with whole numbers • Applications with whole numbers	VARIABLES AND NUMBERS • Variables • Distributive Property • Definition of signed numbers • Signed number operations
LIFEPAC 2	MULTIPLICATION AND DIVISION • Basic facts • Procedures • Practice • Applications	NUMBERS AND FACTORS • Numbers and bases • Sets • Factors and multiples • Least common multiples	SOLVING EQUATIONS • Sentences and formulas • Properties • Solving equations • Solving inequalities
LIFEPAC 3	GEOMETRY • Segments, lines, and angles • Triangles • Quadrilaterals • Circles and hexagons	RATIONAL NUMBERS • Proper and improper fractions • Mixed numbers • Decimal fractions • Per cent	PROBLEM ANALYSIS AND SOLUTION • Words and symbols • Simple verbal problems • Medium verbal problems • Challenging verbal problems
LIFEPAC 4	RATIONAL NUMBERS • Common fractions • Improper fractions • Mixed numbers • Decimal fractions	FRACTIONS AND ROUNDING • Common fraction addition • Common fraction subtraction • Decimal fractions • Rounding numbers	POLYNOMIALS • Addition of polynomials • Subtraction of polynomials • Multiplication of polynomials • Division of polynomials
LIFEPAC 5	SETS AND NUMBERS • Set concepts and operations • Early number systems • Decimal number system • Factors and multiples	FRACTIONS AND PER CENT • Multiplication of fractions • Division of fractions • Fractions as per cents • Per cent exercises	ALGEBRAIC FACTORS • Greatest common factor • Binomial factors • Complete factorization • Word problems
LIFEPAC 6	FRACTIONS • Like denominators • Unlike denominators • Decimal fractions • Equivalents	STATISTICS, GRAPHS, & PROBABILITY • Statistical measures • Types of graphs • Simple probability • And–Or statements	ALGEBRAIC FRACTIONS • Operations with fractions • Solving equations • Solving inequalities • Solving word problems
LIFEPAC 7	FRACTIONS • Common fractions • Decimal fractions • Per cent • Word problems	INTEGERS • Basic concepts • Addition and subtraction • Multiplication and division • Expressions and sentences	RADICAL EXPRESSIONS • Rational and irrational numbers • Operations with radicals • Irrational roots • Radical equations
LIFEPAC 8	FORMULAS AND RATIOS • Writing formulas • A function machine • Equations • Ratios and proportions	FORMULAS AND GEOMETRY • Square root • Perimeter, circumference, and area • Rectangular solid • Cylinder, cone, and sphere	GRAPHING • Equations of two variables • Graphing lines • Graphing inequalities • Equations of lines
LIFEPAC 9	DATA, STATISTICS AND GRAPHS • Gathering and organizing data • Central tendency and dispersion • Graphs of statistics • Graphs of points	ALGEBRAIC EQUATIONS • Variables in formulas • Addition and subtraction • Multiplication and division • Problem solving	SYSTEMS • Graphical solution • Algebraic solutions • Determinants • Word problems
LIFEPAC 10	MATHEMATICS IN SPORTS • Whole numbers • Geometry, sets, and systems • Fractions • Formulas, ratios, and statistics	NUMBERS, FRACTIONS, ALGEBRA • Whole numbers and fractions • Fractions and per cent • Statistics, graphs and probability • Integers and algebra	QUADRATIC EQUATIONS AND REVIEW • Solving quadratic equations • Equations and inequalities • Polynomials and factors • Radicals and graphing

	Grade 10	Grade 11	Grade 12
LIFEPAC 1	A MATHEMATICAL SYSTEM • Points, lines, and planes • Definition of definitions • Geometric terms • Postulates and theorems	SETS, STRUCTURE, AND FUNCTION • Properties and operations of sets • Axioms and applications • Relations and functions • Algebraic expressions	RELATIONS AND FUNCTIONS • Relations and functions • Rules of correspondence • Notation of functions • Types of functions
LIFEPAC 2	PROOFS • Logic • Reasoning • Two-column proof • Paragraph proof	NUMBERS, SENTENCES, & PROBLEMS • Order and absolute value • Sums and products • Algebraic sentences • Number and motion problems	SPECIAL FUNCTIONS • Linear functions • Second-degree functions • Polynomial functions • Other functions
LIFEPAC 3	ANGLES AND PARALLELS • Definitions and measurement • Relationships and theorems • Properties of parallels • Parallels and polygons	LINEAR EQUATIONS & INEQUALITIES • Graphs • Equations • Systems of equations • Inequalities	TRIGONOMETRIC FUNCTIONS • Definition • Evaluation of functions • Trigonometric tables • Special angles
LIFEPAC 4	CONGRUENCY • Congruent triangles • Corresponding parts • Inequalities • Quadrilaterals	POLYNOMIALS • Multiplying polynomials • Factoring • Operations with polynomials • Variations	CIRCULAR FUNCTIONS & GRAPHS • Circular functions & special angles • Graphs of sin and cos • Amplitude and period • Phase shifts
LIFEPAC 5	SIMILAR POLYGONS • Ratios and proportions • Definition of similarity • Similar polygons and triangles • Right triangle geometry	RADICAL EXPRESSIONS • Multiplying and dividing fractions • Adding and subtracting fractions • Equations with fractions • Applications of fractions	IDENTITIES AND FUNCTIONS • Reciprocal relations • Pythagorean relations • Trigonometric identities • Sum and difference formulas
LIFEPAC 6	CIRCLES • Circles and spheres • Tangents, arcs, and chords • Special angles in circles • Special segments in circles	REAL NUMBERS • Rational and irrational numbers • Laws of Radicals • Quadratic equations • Quadratic formula	TRIGONOMETRIC FUNCTIONS • Trigonometric functions • Law of cosines • Law of sines • Applied problems
LIFEPAC 7	CONSTRUCTION AND LOCUS • Basic constructions • Triangles and circles • Polygons • Locus meaning and use	QUADRATIC RELATIONS & SYSTEMS • Distance formulas • Conic sections • Systems of equations • Application of conic sections	TRIGONOMETRIC FUNCTIONS • Inverse functions • Graphing polar coordinates • Converting polar coordinates • Graphing polar equations
LIFEPAC 8	AREA AND VOLUME • Area of polygons • Area of circles • Surface area of solids • Volume of solids	EXPONENTIAL FUNCTIONS • Exponents • Exponential equations • Logarithmic functions • Matrices	QUADRATIC EQUATIONS • Conic sections • Circle and ellipse • Parabola and hyperbola • Transformations
LIFEPAC 9	COORDINATE GEOMETRY • Ordered pairs • Distance • Lines • Coordinate proofs	COUNTING PRINCIPLES • Progressions • Permutations • Combinations • Probability	PROBABILITY • Random experiments & probability • Permutations • Combinations • Applied problems
LIFEPAC 10	REVIEW • Proof and angles • Polygons and circles • Construction and measurement • Coordinate geometry	REVIEW • Integers and open sentences • Graphs and polynomials • Fractions and quadratics • Exponential functions	CALCULUS • Mathematical induction • Functions and limits • Slopes of functions • Review of 1200 mathematics

MANAGEMENT

STRUCTURE OF THE LIFEPAC CURRICULUM

The LIFEPAC curriculum is conveniently structured to provide one teacher handbook containing teacher support material with answer keys and ten student worktexts for each subject at grade levels two through twelve. The worktext format of the LIFEPACs allows the student to read the textual information and complete workbook activities all in the same booklet. The easy to follow LIFEPAC numbering system lists the grade as the first number(s) and the last two digits as the number of the series. For example, the Language Arts LIFEPAC at the 6th grade level, 5th book in the series would be LA 605.

Each LIFEPAC is divided into 3 to 5 sections and begins with an introduction or overview of the booklet as well as a series of specific learning objectives to give a purpose to the study of the LIFEPAC. The introduction and objectives are followed by a vocabulary section which may be found at the beginning of each section at the lower levels, at the beginning of the LIFEPAC in the middle grades, or in the glossary at the high school level. Vocabulary words are used to develop word recognition and should not be confused with the spelling words introduced later in the LIFEPAC. The student should learn all vocabulary words before working the LIFEPAC sections to improve comprehension, retention, and reading skills.

Each activity or written assignment has a number for easy identification, such as 1.1. The first number corresponds to the LIFEPAC section and the number to the right of the decimal is the number of the activity.

Teacher checkpoints, which are essential to maintain quality learning, are found at various locations throughout the LIFEPAC. The teacher should check 1) neatness of work and penmanship, 2) quality of understanding (tested with a short oral quiz), 3) thoroughness of answers (complete sentences and paragraphs, correct spelling, etc.), 4) completion of activities (no blank spaces), and 5) accuracy of answers as compared to the answer key (all answers correct).

The self test questions are also number coded for easy reference. For example, 2.015 means that this is the 15th question in the self test of Section II. The first number corresponds to the LIFEPAC section, the zero indicates that it is a self test question, and the number to the right of the zero the question number.

The LIFEPAC test is packaged at the centerfold of each LIFEPAC. It should be removed and put aside before giving the booklet to the student for study.

Answer and test keys have the same numbering system as the LIFEPACs and appear at the back of this handbook. The student may be given access to the answer keys (not the test keys) under teacher supervision so that he can score his own work.

A thorough study of the Curriculum Overview by the teacher before instruction begins is essential to the success of the student. The teacher should become familiar with expected skill mastery and understand how these grade level skills fit into the overall skill development of the curriculum. The teacher should also preview the objectives that appear at the beginning of each LIFEPAC for additional preparation and planning.

TEST SCORING and GRADING

Answer keys and test keys give examples of correct answers. They convey the idea, but the student may use many ways to express a correct answer. The teacher should check for the essence of the answer, not for the exact wording. Many questions are high level and require thinking and creativity on the part of the student. Each answer should be scored based on whether or not the main idea written by the student matches the model example. "Any Order" or "Either Order" in a key indicates that no particular order is necessary to be correct.

Most self tests and LIFEPAC tests at the lower elementary levels are scored at 1 point per answer; however, the upper levels may have a point system awarding 2 to 5 points for various answers or questions. Further, the total test points will vary; they may not always equal 100 points. They may be 78, 85, 100, 105, etc.

ex. 1 $\boxed{58 / 72}$ ex. 2 $\boxed{84 / 105}$

A score box similar to ex.1 above is located at the end of each self test and on the front of the LIFEPAC test. The bottom score, 72, represents the total number of points possible on the test. The upper score, 58, represents the number of points your student will need to receive an 80% or passing grade. If you wish to establish the exact percentage that your student has achieved, find the total points of his correct answers and divide it by the bottom number (in this case 72.) For example, if your student has a point total of 65, divide 65 by 72 for a grade of 90%. Referring to ex. 2, on a test with a total of 105 possible points, the student would have to receive a minimum of 84 correct points for an 80% or passing grade. If your student has received 93 points, simply divide the 93 by 105 for a percentage grade of 86%. Students who receive a score below 80% should review the LIFEPAC and retest using the appropriate Alternate Test found in the Teacher's Guide.

The following is a guideline to assign letter grades for completed LIFEPACs based on a maximum total score of 100 points.

LIFEPAC Test	=	60% of the Total Score (or percent grade)
Self Test	=	25% of the Total Score (average percent of self tests)
Reports	=	10% or 10* points per LIFEPAC
Oral Work	=	5% or 5* points per LIFEPAC

*Determined by the teacher's subjective evaluation of the student's daily work.

Example:

LIFEPAC Test Score	=	92%	92 x .60	= 55 points
Self Test Average	=	90%	90 x .25	= 23 points
Reports				= 8 points
Oral Work				= 4 points
TOTAL POINTS				= 90 points

Grade Scale based on point system:

100	–	94	=	A
93	–	86	=	B
85	–	77	=	C
76	–	70	=	D
Below		70	=	F

TEACHER HINTS and STUDYING TECHNIQUES

LIFEPAC Activities are written to check the level of understanding of the preceding text. The student may look back to the text as necessary to complete these activities; however, a student should never attempt to do the activities without reading (studying) the text first. Self tests and LIFEPAC tests are never open book tests.

Language arts activities (skill integration) often appear within other subject curriculum. The purpose is to give the student an opportunity to test his skill mastery outside of the context in which it was presented.

Writing complete answers (paragraphs) to some questions is an integral part of the LIFEPAC Curriculum in all subjects. This builds communication and organization skills, increases understanding and retention of ideas, and helps enforce good penmanship. Complete sentences should be encouraged for this type of activity. Obviously, single words or phrases do not meet the intent of the activity, since multiple lines are given for the response.

Review is essential to student success. Time invested in review where review is suggested will be time saved in correcting errors later. Self tests, unlike the section activities, are closed book. This procedure helps to identify weaknesses before they become too great to overcome. Certain objectives from self tests are cumulative and test previous sections; therefore, good preparation for a self test must include all material studied up to that testing point.

The following procedure checklist has been found to be successful in developing good study habits in the LIFEPAC curriculum.

1. Read the introduction and Table of Contents.
2. Read the objectives.
3. Recite and study the entire vocabulary (glossary) list.
4. Study each section as follows:
    a. Read the introduction and study the section objectives.
    b. Read all the text for the entire section, but answer none of the activities.
    c. Return to the beginning of the section and memorize each vocabulary word and definition.
    d. Reread the section, complete the activities, check the answers with the answer key, correct all errors, and have the teacher check.
    e. Read the self test but do not answer the questions.
    f. Go to the beginning of the first section and reread the text and answers to the activities up to the self test you have not yet done.
    g. Answer the questions to the self test without looking back.
    h. Have the self test checked by the teacher.
    i. Correct the self test and have the teacher check the corrections.
    j. Repeat steps a–i for each section.

5. Use the SQ3R* method to prepare for the LIFEPAC test.
6. Take the LIFEPAC test as a closed book test.
7. LIFEPAC tests are administered and scored under direct teacher supervision. Students who receive scores below 80% should review the LIFEPAC using the SQ3R* study method and take the Alternate Test located in the Teacher Handbook. The final test grade may be the grade on the Alternate Test or an average of the grades from the original LIFEPAC test and the Alternate Test.

    *SQ3R: Scan the whole LIFEPAC,
    Question yourself on the objectives,
    Read the whole LIFEPAC again,
    Recite through an oral examination, and
    Review weak areas.

Mathematics 200 LIFEPAC Management

GOAL SETTING and SCHEDULES

Each school must develop its own schedule, because no single set of procedures will fit every situation. The following is an example of a daily schedule that includes the five LIFEPAC subjects as well as time slotted for special activities.

Possible Daily Schedule

8:15	–	8:25	Pledges, prayer, songs, devotions, etc.
8:25	–	9:10	Bible
9:10	–	9:55	Language Arts
9:55	–	10:15	Recess (juice break)
10:15	–	11:00	Mathematics
11:00	–	11:45	Social Studies
11:45	–	12:30	Lunch, recess, quiet time
12:30	–	1:15	Science
1:15	–		Drill, remedial work, enrichment*

Enrichment: Computer time, physical education, field trips, fun reading, games and puzzles, family business, hobbies, resource persons, guests, crafts, creative work, electives, music appreciation, projects.

Basically, two factors need to be considered when assigning work to a student in the LIFEPAC curriculum.

The first is time. An average of 45 minutes should be devoted to each subject, each day. Remember, this is only an average. Because of extenuating circumstances a student may spend only 15 minutes on a subject one day and the next day spend 90 minutes on the same subject.

The second factor is the number of pages to be worked in each subject. A single LIFEPAC is designed to take 3 to 4 weeks to complete. Allowing about 3-4 days for LIFEPAC introduction, review, and tests, the student has approximately 15 days to complete the LIFEPAC pages. Simply take the number of pages in the LIFEPAC, divide it by 15 and you will have the number of pages that must be completed on a daily basis to keep the student on schedule. For example, a LIFEPAC containing 45 pages will require 3 completed pages per day. Again, this is only an average. While working a 45 page LIFEPAC, the student may complete only 1 page the first day if the text has a lot of activities or reports, but go on to complete 5 pages the next day.

Long range planning requires some organization. Because the traditional school year originates in the early fall of one year and continues to late spring of the following year, a calendar should be devised that covers this period of time. Approximate beginning and completion dates can be noted on the calendar as well as special occasions such as holidays, vacations and birthdays. Since each LIFEPAC takes 3-4 weeks or eighteen days to complete, it should take about 180 school days to finish a set of ten LIFEPACs. Starting at the beginning school date, mark off eighteen school days on the calendar and that will become the targeted completion date for the first LIFEPAC. Continue marking the calendar until you have established dates for the remaining nine LIFEPACs making adjustments for previously noted holidays and vacations. If all five subjects are being used, the ten established target dates should be the same for the LIFEPACs in each subject.

FORMS

The sample weekly lesson plan and student grading sheet forms are included in this section as teacher support materials and may be duplicated at the convenience of the teacher.

The student grading sheet is provided for those who desire to follow the suggested guidelines for assignment of letter grades found on page 3 of this section. The student's self test scores should be posted as percentage grades. When the LIFEPAC is completed the teacher should average the self test grades, multiply the average by .25 and post the points in the box marked self test points. The LIFEPAC percentage grade should be multiplied by .60 and posted. Next, the teacher should award and post points for written reports and oral work. A report may be any type of written work assigned to the student whether it is a LIFEPAC or additional learning activity. Oral work includes the student's ability to respond orally to questions which may or may not be related to LIFEPAC activities or any type of oral report assigned by the teacher. The points may then be totaled and a final grade entered along with the date that the LIFEPAC was completed.

The Student Record Book which was specifically designed for use with the Alpha Omega curriculum provides space to record weekly progress for one student over a nine week period as well as a place to post self test and LIFEPAC scores. The Student Record Books are available through the current Alpha Omega catalog; however, unlike the enclosed forms these books are not for duplication and should be purchased in sets of four to cover a full academic year.

WEEKLY LESSON PLANNER

Week of:

Subject	Subject	Subject	Subject
Monday			
Subject	Subject	Subject	Subject
Tuesday			
Subject	Subject	Subject	Subject
Wednesday			
Subject	Subject	Subject	Subject
Thursday			
Subject	Subject	Subject	Subject
Friday			

WEEKLY LESSON PLANNER

Week of:

	Subject	Subject	Subject	Subject
Monday				
	Subject	Subject	Subject	Subject
Tuesday				
	Subject	Subject	Subject	Subject
Wednesday				
	Subject	Subject	Subject	Subject
Thursday				
	Subject	Subject	Subject	Subject
Friday				

Student Name ______________________ Year __________

Bible

LP #	Self Test Scores by Sections 1	2	3	4	5	Self Test Points	LIFEPAC Test	Oral Points	Report Points	Final Grade	Date
01											
02											
03											
04											
05											
06											
07											
08											
09											
10											

History & Geography

LP #	Self Test Scores by Sections 1	2	3	4	5	Self Test Points	LIFEPAC Test	Oral Points	Report Points	Final Grade	Date
01											
02											
03											
04											
05											
06											
07											
08											
09											
10											

Language Arts

LP #	Self Test Scores by Sections 1	2	3	4	5	Self Test Points.	LIFEPAC Test	Oral Points	Report Points	Final Grade	Date
01											
02											
03											
04											
05											
06											
07											
08											
09											
10											

Student Name ____________________ Year ________

Mathematics

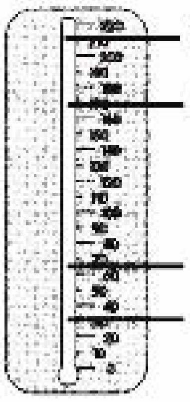
LP #	Self Test Scores by Sections 1	2	3	4	5	Self Test Points.	LIFEPAC Test	Oral Points	Report Points	Final Grade	Date
01											
02											
03											
04											
05											
06											
07											
08											
09											
10											

Science

LP #	Self Test Scores by Sections 1	2	3	4	5	Self Test Points	LIFEPAC Test	Oral Points	Report Points	Final Grade	Date
01											
02											
03											
04											
05											
06											
07											
08											
09											
10											

Spelling/Electives

LP #	Self Test Scores by Sections 1	2	3	4	5	Self Test Points	LIFEPAC Test	Oral Points	Report Points	Final Grade	Date
01											
02											
03											
04											
05											
06											
07											
08											
09											
10											

3.7 

Teacher Check.

3.8 Suggested Answers:

78°F	120°F	74°F	78°F
74°F	140°F	68°F	32°F

3.9 30°F 68°F 74°F 140°F

3.10 tap water classroom
hot water ice water

3.11 Suggested Answers:
ice cubes
cooking

3.12 Teacher Check

3.13 12, 3, 36, 60, 7, 12

3.14 $3\frac{1}{2}$ inches 2 inches

3.15

7	9	200
5	40	8
20	300	10

3.16

tens	tens	ones
ones	tens	ones

3.17
five hundred seven
57 fifty-seven
four hundred sixty
46 forty-six

3.18 590, 509, 950, 905, 95, 59

Part Four

4.1 nine dollars and seventy-five cents
three dollars and forty cents
seven dollars and three cents

4.2 Suggested Answers:

4	2	3	1	1
2		3		2
8	2	2		

4.3 $9.73 $6.11 $9.98 $2.24

4.4 $8.49 $1.82 $9.76 $1.10 $5.65 $3.11

4.5

$$\begin{array}{r} \$1.22 \\ +\ \$2.41 \\ \hline \$3.63 \end{array}$$

$$\begin{array}{r} \$3.75 \\ -\ \$3.63 \\ \hline \$\ \ .12 \end{array}$$

4.6 Suggested Answer:
James paid $2.11 for a hamburger.
He paid $1.32 for the soda.
How much did he pay altogether?

$$\begin{array}{r} \$2.11 \\ +\ \$1.32 \\ \hline \$3.43 \end{array}$$

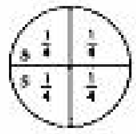
He paid $3.43 for the hamburger and soda.

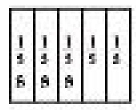
4.7

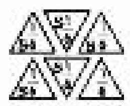
11	13	15	10	12	18
4	7	3	6	4	8

9	13	11
8	2	13
10	11	12
9	7	0
7	4	8
4	9	5

6	10	5	9	3	16
4	5	8	9	11	9

4.8 
$\frac{2}{4}$


$\frac{3}{5}$


$\frac{5}{6}$

4.9

428	482	248	284	842	824
248	284	428	482	824	842

4.10
236 six hundred thirty-two
623 three hundred sixty-two
326 six hundred twenty-three
632 two hundred thirty-six
263 three hundred twenty-six
362 two hundred sixty-three

236 263 326 362 623 632

4.11 391, 44, 187
205, 966, 530, 673
414, 758, 829°

4.12 12:57

4.13

eleventh	fifth
fifteenth	thirteenth
ninth	seventh
sixth	twelfth
eighteenth	twentieth

4.14 eighteenth, ninth, fourteenth

Part Five

5.1

60	30	90
10	10	40
100	80	50
40	10	30

5.2

262, 264	88, 90
570, 572	353, 355
699, 701	901, 903

5.3

=	>
≠	<
≠	>
=	<

5.4

76	52	91	23	40	62
37	20	73	81	64	80
63	82	71	72	70	91
90	55	94	53	60	54
670	794	361	671	582	
484	456	343	280	435	

5.5

14	24	54	72	62	78
48	75	60	22	83	63
21	22	93	16	63	54
323	704	614	172	284	
824	652	720	315	721	

5.6 green, yellow, brown

5.7 Sunday, December 13, –

5.8 10:00 AM

5.9 70°F

5.10 12
3, 1
$2.64
1 hour
yes

5.11 Teacher Check

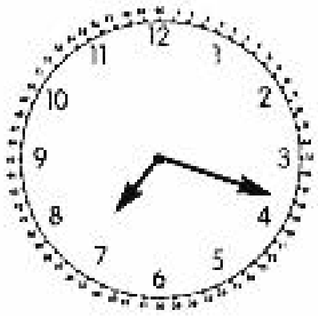
8	3	11	5	12	6
7	2	1	4	10	9

Math 206 Answer Key

Part One

1.1 5:00 6:30 7:15 9:45

1.2 12, 12
60, 60

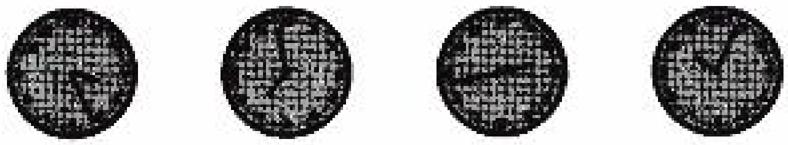


1.3 short
long

1.4 7, 8
18

1.5 1:12 8:34 9:08 4:16

1.6



1.7 Teacher Check

1.8

+			
	11	6	14
	8	3	11
	14	9	17

+			
	7	4	3
	10	7	6
	13	10	9

1.9	76	87	78	97	788	769
	13	14	78	129	73	
1.10	14	12	62	45	44	51
	91	63	30	32	14	81
	416	323	115	233	483	
	581	340	255	334	520	
1.11	554	382	824	324	475	
	120	642	542	224	640	
1.12	41	62	85	38	20	93
	61	73	44	66	55	85
1.13	367	380	754	557	283	

1.14 Suggested Answers:

Bag 1 H toy block 3 ounces y
Bag 2 H dad's shoe 2 pounds

Teacher Check

Teacher Check

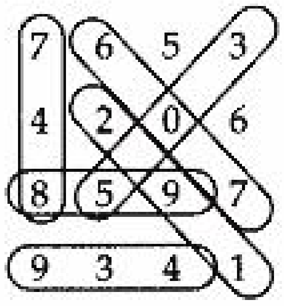
Part Two

2.1

17	thirteen
256	five hundred twenty-six
310	three hundred one
509	nine hundred ninety-nine
301	seventeen
526	two hundred sixty-five
13	five hundred nine
44	three hundred ten
265	two hundred fifty-six
999	forty-four

13
17
44
256
265
301
310
509
526
999

2.2 748
607
503
291
859
934



2.3 13
1, 3
3, 1
9

2.4	92	80	74	111	64
2.5	383	894	983	573	672
	570	822	555	971	751

2.6 tens | ones: 4 | 13; ~~53~~; − 27; 26 — no; 4; 13; yes, yes

2.7 tens | ones: 7 | 12; ~~82~~; − 36; 46 — no; 7; 12; yes, yes

2.8 44 37 29 29

2.9 9, 4, 5
900, 40, 5

3, 0, 2
300, 0, 2

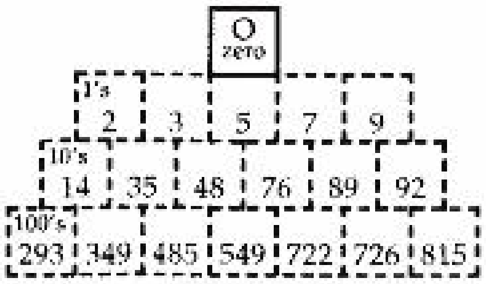
2, 7, 0
200, 70, 0

2.10 12 fish
47 glasses

2.11

<u>3, 6, 9</u>	<u>4, 8, 12</u>
$3 + 6 = 9$	$4 + 8 = 12$
$6 + 3 = 9$	$8 + 4 = 12$
$9 - 3 = 6$	$12 - 4 = 8$
$9 - 6 = 3$	$12 - 8 = 4$

2.12



Part Three

3.1 568 five hundred sixty-eight
309 three hundred nine
$7.39 seven dollars and thirty-nine cents
$4.07 four dollars and seven cents

427	509	756	93
+ 342	+ 154	− 325	− 42
769	663	431	51

$6 + 2 = 3 + 5$ $12 > 5$
$7 - 4 \neq 6 + 1$ $19 < 24$

827 872 287 278 782 728

3.2 2 inches
$3\frac{1}{2}$ inches

3.3 yes

3.4 Teacher Check
rectangle, square, triangle

3.5 Teacher Check

3.6 2
1
2
1
6
rectangle, 6

2
2
2
2
8
square, 8

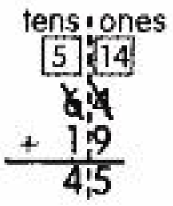
2
2
2
6
triangle, 6

3.7 4, 8, 2
5, 7
bar

3.8

≠	>
=	>
≠	<
=	>
≠	<
≠	>
≠	>

3.9



no
5
14
yes, yes

3.10	38	26	29	26
3.11	26	59	29	18
	24	59	37	37
3.12	20	10	70	
	60	50	90	
	10	10	30	

3.13

1	~~2~~	3	~~4~~	5	~~6~~	7
~~8~~	9	~~10~~	11	~~12~~	13	~~14~~
15	~~16~~	17	~~18~~	19	~~20~~	

3.14 even

Part Four

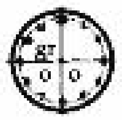
4.1
56 92 62 547 797 982
14 13 79 89 87
65 33 71 26 43 26
121 222 705 423 715

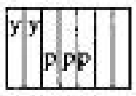
4.2
273 586 12 19
30 418 24 823
658 702 861 215

4.3 4, 5, 7, 6, 9, 8   5, 7, 6, 3, 4, 9, 10, 8

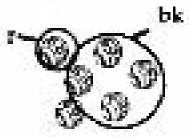
4.4 4:56   7:07   10:15   2:18

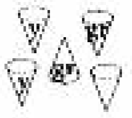
4.5 Teacher Check

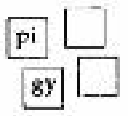
4.6

$\frac{3}{4}$

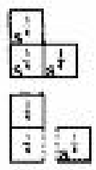

$\frac{5}{7}$

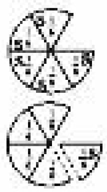

$\frac{2}{3}$

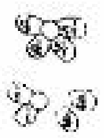

$\frac{5}{6}$


$\frac{4}{5}$


$\frac{2}{4}$

4.7

$\frac{2}{4}$

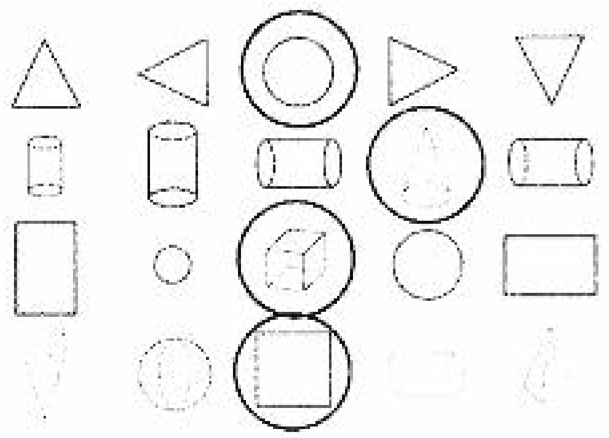

$\frac{4}{6}$

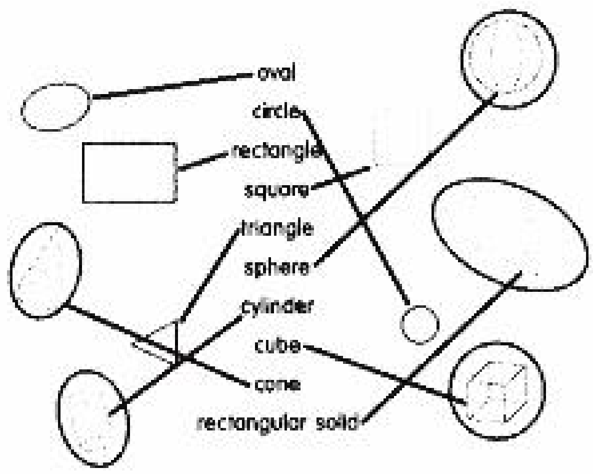

$\frac{2}{5}$

4.8
$2.30 - 2 dollars, 1 quarter, 1 nickel
$4.25 - 2 dollars, 8 quarters, 2 dimes, 1 nickel
89¢ - 2 quarters, 3 dimes, 1 nickel, 4 pennies
$1.37 - 1 dollar, 3 dimes, 1 nickel, 2 pennies
$1.55 - 1 dollar, 2 quarters, 5 pennies
64¢ - 2 quarters, 1 dime, 4 pennies

4.9 58¢

4.10 $7.72 $8.76 $4.13 $4.10

4.11


4.12


Part Five

5.1
12, 3, 36
60, 24
7, 12
16, 12
32
212

5.2
12
212°F
scale
2 yards
Monday August 2

5.3	15	7
	9	12
	5	4
	12	11
5.4	60	20
	70	70
	40	25
	35	85

5.5 83 96 871 781 844

5.6

$$\begin{array}{r} \text{tens} \mid \text{ones} \\ \boxed{6}\ \boxed{15} \\ \cancel{7}\ \cancel{5} \\ +\ 2\ 8 \\ \hline 4\ 7 \end{array}$$

no
6
15
yes, yes

5.7	8	36	28	14
5.8	14	47	24	68
	39	29	24	18
	46	47	14	44

5.9 Numbers circled:
3, 6, 9, 12, 15, 18, 21, 24, 27, 30

5.10 3, 6, 9, 12, 15, 18, 21, 24, 27, 30

5.11 $3 + 8 = 11$ $8 + 3 = 11$
$11 - 3 = 8$ $11 - 8 = 3$

5.12	6	2	8			
	7	6	9	5	3	9
	6	8	4	7	5	9

Suggested Answer:

$$\begin{array}{r} 8 \\ -\ 2 \\ \hline 6 \end{array}$$

Teacher Check

Part One

1.1
14, 3, 5, 17
11, 15, 20, 4
6, 9, 13, 12
18, 2, 16, 10
8, 1, 7, 19

1.2

one-third	three-elevenths
two-fifths	five-eighths
nine-sixteenths	seven-twelfths
four-sevenths	eight-ninths

1.3
2 years
Monday, Wednesday, Friday
Tuesday, Thursday
$6.44
$2.52
4
yes
$2.12

1.4

11	14	88	99	78
57	128	894	485	859
73	101	90	72	63

1.5

365	984	781	652
892	655	850	672

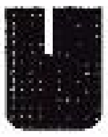
1.6

23	43	11	52	66
442	382	254	510	

1.7

35	28	18	15
39	14	33	39
28	13	28	6

1.8

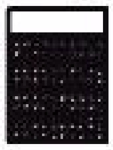


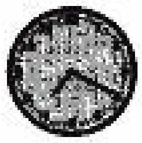
$$\begin{array}{r} 12 \\ -\ 8 \\ \hline 4 \end{array}$$

800

2

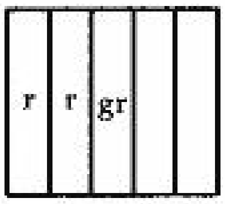
●–pink



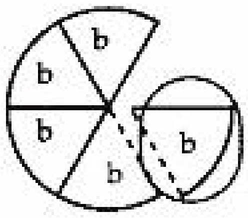


Part Two

2.1



$\frac{3}{5}$



$\frac{4}{6}$

2.2

$\frac{6}{7}$	$\frac{2}{3}$
$\frac{4}{9}$	$\frac{6}{8}$

2.3

$\frac{3}{8}$	$\frac{3}{5}$	$\frac{2}{6}$	$\frac{2}{9}$	$\frac{4}{10}$	$\frac{2}{12}$
$\frac{5}{7}$	$\frac{2}{8}$	$\frac{2}{3}$	$\frac{2}{6}$	$\frac{9}{16}$	$\frac{8}{12}$

2.4 Suggested Answers:
One-sixth plus one-sixth equals two-sixths.
One-tenth plus three-tenths equals four tenths.
Four-ninths minus two-ninths equals two-ninths.
Seven-twelfths minus five-twelfths equals two-twelfths.

2.5 Suggested Answers:
<u>The Little Pony</u>
64, 6
yes, yes

2.6

1, 8	29, 12
9, 10	41, 14
19, 10	55, 10
no, no, 64	

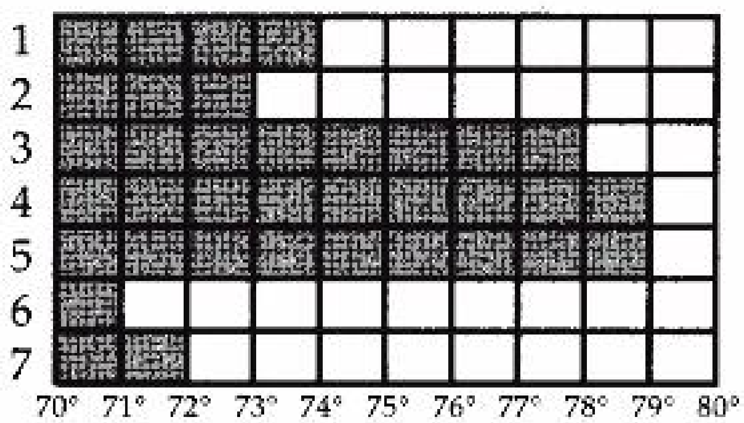
2.7
19
18
30

2.13 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

2.14 BIRTHDAY PARTY
Matt is having a birthday party.

Part Three

3.1



79°, 71°
June 4, June 5

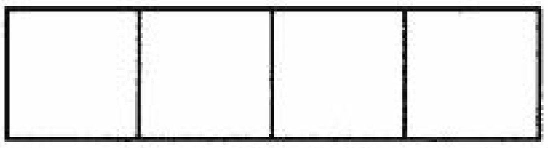
3.2 10:15 8:02 3:30 1:49

3.3 11:08 PM 7:13 AM
12:30 AM 2:00 PM

3.4 60 24
7 12
15

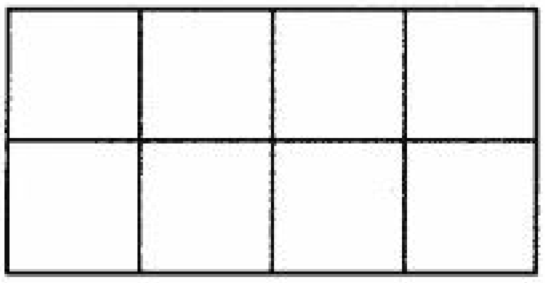
3.5 3
2
10
6

3.6



length: 4 linear inches
width: 1 linear inch

perimeter: 10 linear inches
area: 4 square inches



length: 4 linear inches
width: 2 linear inch

perimeter: 12 linear inches
area: 8 square inches

3.7

108	94	129	120	90
	17		16	
	15		15	
17	12	15	18	16
119	117	111	133	160
619	894	914	603	723

3.8

15	33	33	4	30
	61		53	
	70		83	
150	323	301	411	50
27	16	48	19	47
167	205	214	128	

3.9

<u>3, 9, 12</u>	<u>7, 8, 15</u>	<u>4, 6, 10</u>
3, 9, 12	7, 8, 15	4, 6, 10
9, 3, 12	8, 7, 15	6, 4, 10
12, 3, 9	15, 7, 8	10, 4, 6
12, 9, 3	15, 8, 7	10, 6, 4

3.10

+				
	9	12	5	3
	13	16	9	7
	14	17	10	8
	10	13	6	4

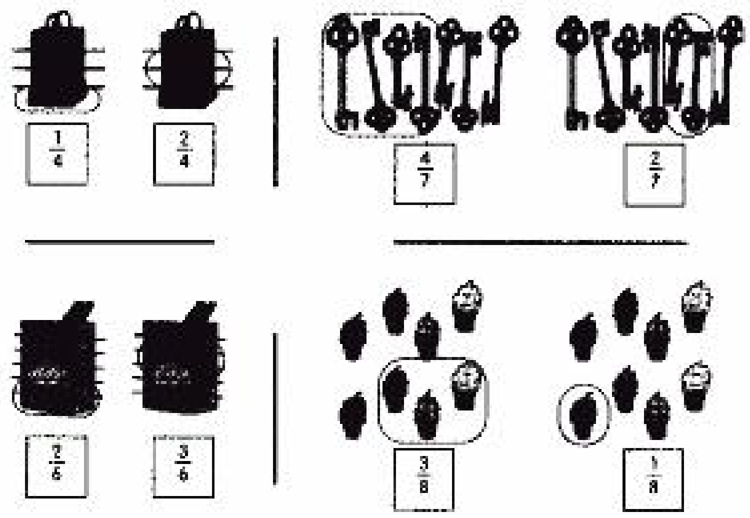
3.11 9, 3, 6, 10, 4, 7, 5, 8

3.12

267	276	627	672	726	762
38	83	308	380	803	830

Part Four

4.1



4.2

$\frac{1}{4}$	$\frac{2}{6}$	$\frac{4}{7}$	$\frac{3}{8}$
$+\frac{2}{4}$	$+\frac{3}{6}$	$+\frac{2}{7}$	$+\frac{1}{8}$
$\frac{3}{4}$	$\frac{5}{6}$	$\frac{6}{7}$	$\frac{4}{8}$

4.3 $\frac{1}{5}$ $\frac{2}{5}$ $\frac{3}{5}$ $\frac{4}{5}$ $\frac{5}{5}$

4.4 $\frac{1}{6}$ $\frac{2}{6}$ $\frac{3}{6}$ $\frac{4}{6}$ $\frac{5}{6}$ $\frac{6}{6}$

4.5 $\frac{4}{8}$ $\frac{5}{8}$ $\frac{6}{8}$ $\frac{7}{8}$ $\frac{8}{8}$

4.6 $\frac{3}{3}$ $\frac{7}{9}$ $\frac{5}{8}$ $\frac{6}{15}$

4.7 Two-thirds plus one-third is equal to three-thirds.

4.8

69	117	598	999	837
78	97	109	598	478
142	115	96	143	115
573	960	861	913	

4.9

42	12	47	42	40
411	453	213	119	
36	35	29	24	48
214	525	236	468	

4.10 5 months
no
4 hours
yes
3 eggs
perimeter
16 feet
57¢
no
PM
35 pounds
4 quarts
no
3 quarts
$7.65
$ .26 or 26¢
3:15 PM, 3:20 PM, 3:25 PM, 3:30 PM, 3:35 PM
2
Tuesday, Friday

Part Five

5.1 8, 10, 12, 14, 16, 18, 20
20, 25, 30, 35, 40, 45, 50
40, 50, 60, 70, 80, 90, 100
12, 15, 18, 21, 24, 27, 30
$\leftarrow$ west
725, 752
$\frac{4}{7}$, $\frac{5}{7}$, $\frac{6}{7}$, $\frac{7}{7}$
$2.18, $2.19, $2.20

g	o
	y

5.2

14, 16	62, 64	291, 293
130, 132	242, 244	488, 490
855, 857	598, 600	721, 723

5.3

<	<	>
<	<	<
>	<	<
<	>	>
=	≠	=
≠	≠	=
=	≠	=
≠	=	=

5.4 4 3 1 5 2

5.5

2	4	5	1	4	5
3	1	2	4	3	5
3	2	1	5	2	3
2	5	4	3	1	5

5.6 206
369
817
438
762

6	2	2	4
7	0	9	8
5	6	3	1
3	4	2	7

5.7 five hundred nine
eight hundred thirteen
seven hundred fifty-six
one thousand

5.8 623 two hundred thirty-six
326 three hundred sixty-two
263 six hundred twenty-three
236 three hundred twenty-six
632 six hundred thirty-two
362 two hundred sixty-three

5.9 8
11
13
9
15
6

5.10 Suggested Answers:

Kari had two quarters and
two dimes.
She had 70¢.
She bought a cone for 69¢.
She received 1 penny in change.

Kevin baked 18 cookies.
He ate 5 cookies.
Kevin has 13 cookies left.

Kari has 3 black cats.
Kevin has 3 tan cats.
Together they have 6 cats.

$\frac{3}{6}$ of the set of tops are
on the table.
$\frac{3}{6}$ of the set of top are
on the floor.
There are $\frac{6}{6}$ of a set of
tops altogether.

Self Test 1

1.01

sixteen	80
forty-two	31
eighty	16
thirty-one	11
seventy-five	75
eighty-one	42
eleven	60
sixty	81

1.02 seventeen
twenty-four
eight
thirty-seven
sixty-five
nineteen
fifty-three
twenty

1.03

9	11	17	7	7	10
10	15	7	10	11	7
9	7	8	14	12	6

Self Test 2

2.01

1	7	5	8	3	8
1	5	5	0	4	1
8	3	5	4	5	6

2.02

23	48	11	96
15	37	85	50

2.03 28 67 54 32

2.04 12 39 57 82

twenty three forty eight

Self Test 3

3.01

12	thirty-three
45	100
seventy-four	60

3.02

=	+
–	≠
≠	–

3.03

>	<
<	>

3.04 $13 - 5 = 8$
$47 > 43$
$4 + 8 \neq 11$
$65 < 75$

Self Test 4

4.01 <u>4, 5, 9</u>
4, 5, 9
5, 4, 9
9, 4, 5
9, 5, 4

4.02 12 11 98 69

4.03 Mary has 2 apples.
Jack has 4 apples.
How many apples do
Mary and Jack have altogether?

$$\begin{array}{r} 2 \\ +\ 4 \\ \hline 6 \end{array}$$

6 apples

4.04 $6 > 5$
40

Self Test 5

5.01

thirteen	23
thirty	13
thirty-three	30
twenty-three	33

5.02

circle	▭
triangle	□
rectangle	△
square	○

5.03

9	5
15	5
7	6
10	1

5.04 58, 60, 61, 63, 65, 66

5.05 ≠ – >

Self Test 1

1.01 157, 160, 161, 163, 165, 166

1.02

one hundred twelve	165
one hundred fifty-six	120
one hundred sixty-five	156
one hundred twenty	112

1.03	9	9
	11	3
	10	12
	11	6
	8	12

1.04	even	even	odd
	even	odd	even

1.05 0
0, 5
0, 2, 4, 6, 8

Self Test 2

2.01	1	4
	3	2
	4	8
	5	6
	9	4

2.02	<u>2, 3, 5</u>	<u>7, 8, 15</u>
	2, 3, 5	7, 8, 15
	3, 2, 5	8, 7, 15
	5, 2, 3	15, 7, 8
	5, 3, 2	15, 8, 7

2.03 12
60
hour
minutes

2.04	1:00	9:05	10:15

Self Test 3

3.01 155, 157, 158, 159, 160, 162

3.02 37 142 85 63 79 156

3.03

$$\begin{array}{r} 5 \\ 3 \\ +\ 10 \\ \hline 18 \end{array} \qquad \begin{array}{r} 4 \\ 33 \\ +\ 21 \\ \hline 58 \end{array} \qquad \begin{array}{r} 13 \\ 11 \\ +\ 12 \\ \hline 36 \end{array}$$

3.04	61	25	12
3.05	second		fourth
3.06	twelve		

Self Test 4

4.01	$\neq$	$<$

4.02 99, 100, 101, 102, 103, 104

4.03 8
3
$\frac{3}{8}$

5
3
$\frac{3}{5}$

4.04 Suggested Answer:
9, 1, 1

4.05	77¢	76¢	55¢	27¢

Self Test 5

5.01

$$\begin{array}{r} 8 \\ +\ 4 \\ \hline 12 \end{array}$$ 12 pennies

$$\begin{array}{r} 12 \\ -\ 5 \\ \hline 7 \end{array}$$ 7 crayons

5.02

1	2	3	4	5	6	7	8	9	~~10~~
11	12	13	14	15	16	17	18	19	~~20~~

5.03	even	even	even	odd
5.04	79	88	54	82

Self Test 1

1.01	6	11
	17	12

1.02 1, 3, 2
100, 30, 2

1, 0, 7
100, 0, 7

0, 4, 7
0, 40, 7

1.03 $\begin{array}{r} 5 \\ +\ 4 \\ \hline 9 \end{array}$ $\quad$ $\begin{array}{r} 14 \\ -\ 6 \\ \hline 8 \end{array}$ $\quad$ $12 > 11$ $\quad$ $15 \neq 51$

1.04 fifty-nine
one hundred twenty-three

Self Test 2

2.01	51	71	42	74	51	90

2.02 Teacher Check
5
inches
They always are the same

2.03	43	22	36	23	8	20

2.04 103
150

Self Test 3

3.01 100, 20, 10

3.02 3, 5, 1, 3

3.03 47¢ 22¢ $5.87 $4.47

3.04 34¢

3.05 closed

3.06 no
triangle

Self Test 4

4.01 12
12
24
AM
PM

4.02 PM AM

4.03 8, 10, 18
55, 60, 75
120, 140, 170

4.04					16
					8
	10	15	15	9	14
					3
					8
	6	8	7	0	7

Self Test 5

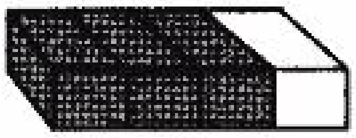
5.01 1, 6, 3
100, 60, 3

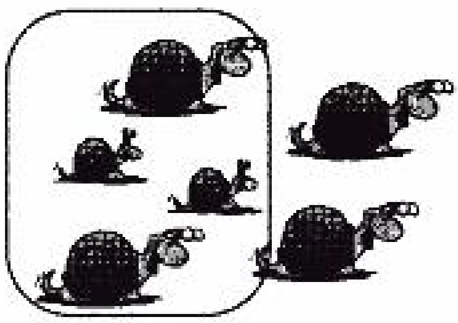
5.02	98	64
5.03	40	30
	10	10

5.04 thirteen
one hundred five
one hundred sixty-seven

5.05	3, 9,	6, 2
	6	35

5.06





Self Test 1

1.01 98, 101 538, 541
266, 268 810, 813

1.02 four hundred twenty-six
seven hundred three

1.03 6, 3, 4
600, 30, 4

3, 5, 0
300, 50, 0

1.04

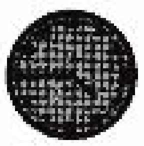
3	52	31	63
20	3	5	22
+ 4	+ 12	+ 40	+ 4
27	67	76	89

Self Test 2

2.01 5, 8, 13
5, 8, 13
8, 5, 13
13, 5, 8
13, 8, 5

2.02 Suggested Answers:
4 1 1
1 2 1

2.03



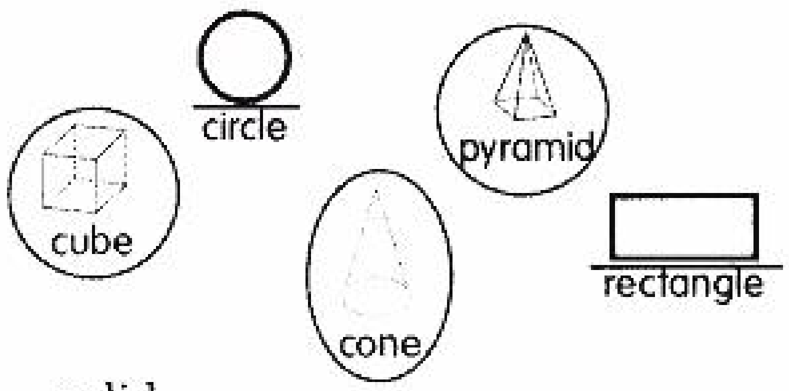
2.04 48 306 250
seven hundred thirty-four

2.05 75 12 99 569 53 92

2.06 9 5 33 60 234 417

Self Test 3

3.01



3.02 solid

3.03 84 678 12 99 63 63

3.04 35 31 724 410

Self Test 4

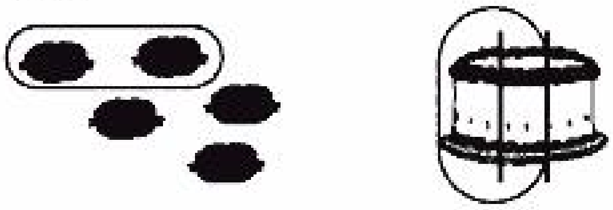
4.01 12, 36
3

4.02 inches, feet or yards

4.03 24 142 291 369 568 769 812 976

4.04 0, 5

4.05



4.06 98¢

Self Test 5

5.01 12 394 66 112

5.02 50
90
30
80

5.03 Teacher Check

5.04 nine hundred eleven
four hundred fifty-nine

5.05 75¢, 72¢ 3¢ 3 pennies

5.06 31
5
Teacher Check

Self Test 1

1.01 seven hundred fourteen

1.02 minus

1.03 less than

1.04 603

1.05 ≠ –

1.06 10 > 9 8 > 7

1.07 5
data
bar

Self Test 2

2.01 4, 8, 10, 14 2's
157, 159, 160, 161 1's

2.02 12, 3, 36

2.03 Suggested Answer:
sock

2.04 Suggested Answers:

3	8	2
4	1	5

2.05

2.05	1	2	3	4	5	6
	7	8	9	10	11	12

2.06 tens'

2.07 259, 295, 529, 592, 925, 952

2.08 6, 3, 4
600, 30, 4

Self Test 3

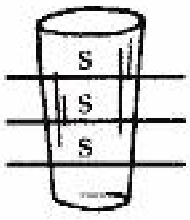
3.01 83, 38 962, 269

3.02 20, 8, 900

3.03 place holder

3.04 32 212
12 60

3.05



$\frac{3}{4}$

3.06 6 389 99 162 883

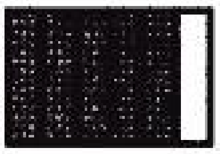
Self Test 4

4.01 Suggested Answers:

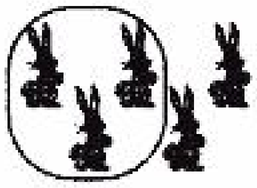
3	4	1	2
6		1	3

4.02 $6.75 $8.59 $4.23 $6.62

4.03



$\frac{5}{6}$



$\frac{3}{5}$

4.04 Suggested Answers:
584, 548, 854
854, 584, 548

4.05 70

4.06 eighth seventeenth

Self Test 5

5.01 50 90 20 50

5.02 657, 659 299, 301

5.03	13 63	253	13	44	730
	31 85	292	63	62	775

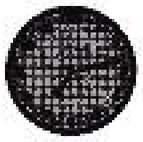
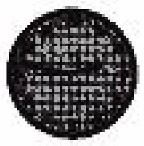
5.04 12 1
7 1

Teacher Check

Self Test 1

1.01 8:19 6:02

1.02

1.03

26	99	688	11	98
81	511	653	85	292

1.04 16

1.05 ounces pounds
ounces pounds

Self Test 2

2.01

49	sixty-three
36	four hundred nine
63	forty-nine
409	thirty-six

2.02 36 59 5 13

2.03 7, 0, 6

700, 0, 6

2.04 9 65 78 165 191 538 847

Self Test 3

3.01 2
1
2
1
6

3.02 59 37 34 57

3.03 1 $\cancel{2}$ 3 $\cancel{4}$ 5 $\cancel{6}$ 7 $\cancel{8}$ 9 $\cancel{10}$

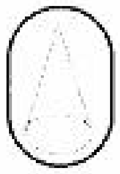
3.04 even

3.05 five hundred nine
18 > 13 12 ≠ 5

$$\begin{array}{r} 6 \\ 32 \\ \underline{+\ 101} \\ 139 \end{array}$$

Self Test 4

4.01 $\frac{2}{4}$ of a jar
$\frac{1}{3}$ of the jar

4.02  cone

4.03 \$3.55
yes

4.04 9:44 3:03

Self Test 5

5.01 81 94 17 27

5.02 12

5.03

<u>4, 8, 12</u>	<u>5, 9, 14</u>
4, 8, 12	5, 9, 14
8, 4, 12	9, 5, 14
12, 4, 8	14, 5, 9
12, 8, 4	14, 9, 5

5.04 $2\frac{1}{2}$

4

$1\frac{1}{2}$

Self Test 1

1.01 two-thirds one-seventh
four-fifths two-eighths

1.02	59	368	111	375
	31	10	38	45

1.03 14 – 8 = 6

1.04
$$\begin{array}{r} 2 \\ 4 \\ +\ 3 \\ \hline 9 \end{array}$$
9 books

Self Test 2

2.01 $\frac{4}{7}$ $\frac{6}{9}$ $\frac{4}{8}$ $\frac{2}{4}$ $\frac{3}{12}$

2.02 Three-sevenths plus one-seventh equals four-sevenths.

2.03 34
yes
14

2.04	9	8	6	11	5	1
	3	12	7	10	4	2

2.05 74 365 612 27

Self Test 3

3.01 thirty-eight
four hundred seven

3.02 0, 5
perimeter

3.03 6, 2, 7
600, 20, 7

3.04 857 933 709 835

3.05	12	3	16
	60	24	7

Self Test 4

4.01 659 957

4.02 37 37

4.03 30
50

4.04 803
700, 40, 3

4.05 362, 361, 360

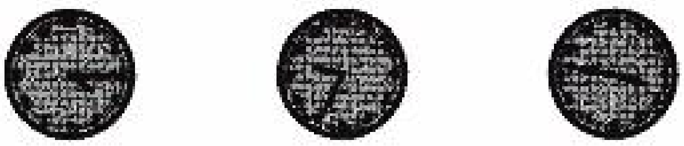
4.06
$$- \quad \begin{array}{r} \frac{3}{4} \\ -\ \frac{1}{4} \\ \hline \frac{2}{4} \end{array}$$

4.07
$$\begin{array}{r} 75 \\ -\ 69 \\ \hline 6 \end{array}$$
6 pennies

Self Test 5

5.01 76

5.02



afternoon before noon before noon

5.03 forty-six three hundred seventy
four-fifths thirteen

5.04 111 835 16 27

Math 208 Self Test Key

Self Test 1

1.01 73 257
410 931

1.02 10
70 is a large number. Counting by 10's would be the fastest and most accurate.

1.03 6
10
2

1.04 6, 9, 15
6, 9, 15
9, 6, 15
15, 6, 9
15, 9, 6

1.05 13 24 16 9

1.06 16 37 47 12 28

Self Test 2

2.01 870

2.02 $+$ $\neq$ $<$
$-$ $=$ $>$

2.03 1, 1, 2, 0, 2

2.04 $4.92

2.05 566 857
56 421

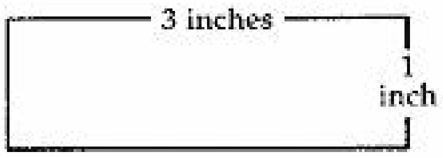
2.06

$$\begin{array}{r} 403 \\ 52 \\ +\ 3 \\ \hline 458 \end{array} \qquad \begin{array}{r} 65 \\ -\ 36 \\ \hline 29 \end{array}$$

Self Test 3

3.01 third sixth
fifth eighth

3.02



8 inches

3.03 2

3.04 10 6, 8, 10, 12, 16, 18

$$\begin{array}{r} \frac{2}{8} \\ +\ \frac{1}{8} \\ \hline \frac{3}{8} \end{array} \qquad \begin{array}{r} \frac{5}{9} \\ -\ \frac{2}{9} \\ \hline \frac{3}{9} \end{array} \qquad \begin{array}{r} 50 \\ 30 \\ +\ 2 \\ \hline 82 \end{array} \qquad \begin{array}{r} 28 \\ -\ 12 \\ \hline 16 \end{array}$$

Self Test 4

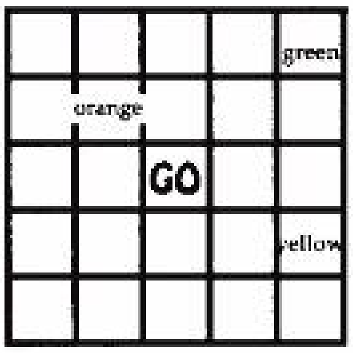
4.01 one hundred forty
six hundred ninety-nine

4.02 60
50

4.03 103 625

4.04 15 38

4.05



Self Test 5

5.01 865 568
830 38

5.02 2 2 4

5.03 gallon

5.04 12 92 611

5.05 34 47 215

Self Test 1

1.01 3 inches perimeter = 8 in.
1 inch area = 3 sq. in.

1.02 3, 6, 5
300, 60, 5

1.03 783 469

1.04 61 360 156

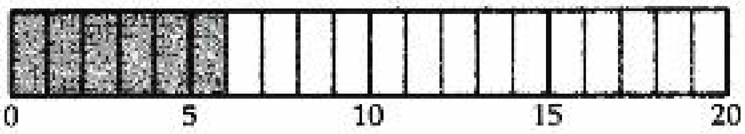
$$\begin{array}{r} 61 \\ 46 \\ \underline{+\ 37} \\ 144 \end{array}$$

840 814

Self Test 2

2.01 east north west south

2.02



2.03 145 160 15 14 10 2

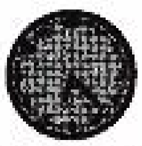
$$\begin{array}{r} 49 \\ \underline{+\ 46} \\ 95 \end{array} \quad \begin{array}{r} 75 \\ \underline{+\ 38} \\ 113 \end{array} \quad \begin{array}{r} 92 \\ \underline{-\ 57} \\ 35 \end{array} \quad \begin{array}{r} 61 \\ \underline{-\ 43} \\ 18 \end{array}$$

2.04 Teacher Check

Self Test 3

3.01 2 12 16

3.02



PM

3.03 10 linear inches
6 square inches

3.04 square inches

3.05 third
70

3.06 25, 20, 3, 48

3.07 17
10
57
76

Self Test 4

4.01 73 508

4.02 three hundred eighty
nine hundred twelve

4.03 872 278

4.04 three-fourths

4.05 $<$ $\neq$ $-$
$<$ $\neq$ $+$

4.06 82 28 $\frac{5}{7}$ $\frac{3}{9}$

Self Test 5

5.01 121 82 555 931

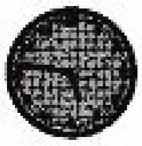
$$\begin{array}{r} 28 \\ 15 \\ \underline{+\ 63} \\ 106 \end{array}$$

5.02 24 36 29 236

$$\begin{array}{r} 53 \\ \underline{-\ 28} \\ 25 \end{array}$$

5.03 20
O, O, E

5.04



49 15 10
eleven 27 < 45

Math 210 Self Test Key

Self Test 1

1.01	85	113	97	154	50
	778	902	843	986	997

1.02 three hundred forty-five

1.03	600	300	800

1.04 474 letters

Self Test 2

2.01	2	2		3
		7		3
	1	4	1	3

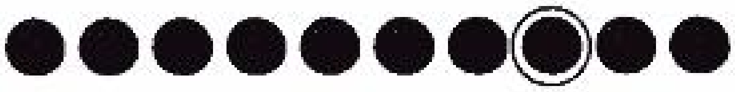
2.02	even	odd

2.03	\$17.80	\$11.15	\$2.30	\$5.39

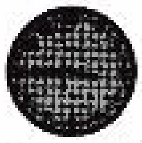
2.04 eight dollars and five cents
four dollars and thirty-six cents

2.05 \$5.50
\$7.08

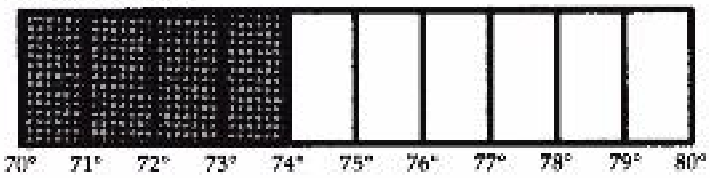
2.06 3, 0, 8
300, 0, 8

2.07 

Self Test 3

3.01 

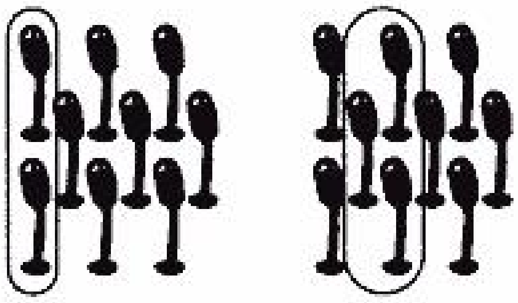
3.02 June 4th



3.03 4 linear inches
1 linear inch
10 linear inches   4 square inches

3.04			10	
			13	
	142	103	13	
	413	311	546	326

Self Test 4

4.01 

$$\frac{2}{9} + \frac{3}{9} = \frac{5}{9}$$

4.02	58	87	578	944
4.03	33	59	239	321

4.04 5 inches

Self Test 5

5.01 There were four eggs altogether.
One egg has hatched.
Now there are three eggs.

5.02 sphere, cylinder, rectangular solid

5.03	–, =	+, –, =
	–, =	–, –, =

5.04 two hundred thirteen
eight hundred nine

5.05	$\frac{3}{5}$, $\frac{4}{5}$	9, 12	\$4.15, \$4.16

LIFEPAC TEST 201

1. fifty-seven — 57
   fifteen — 15
   seventy-five — 75
   seventy-seven — 77
   fifty-five — 55

2. twelve
   eight
   thirty-nine
   fifty
   sixty-two

3. 7 9 12 13 11 9 5 6 8 5

4. 74 86 92

5. 6

6. 27 98 9 93 22 44

7. 17 40
   sixty-nine thirteen

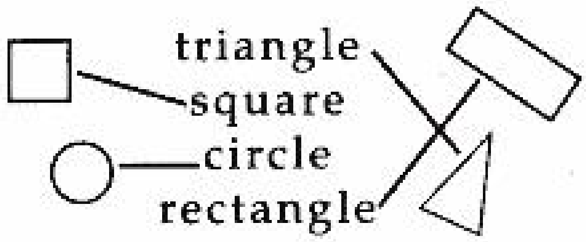
8. 4, 8, 12
   4, 8, 12
   8, 4, 12
   12, 4, 8
   12, 8, 4

9. –
   –
   ≠
   <

10. $\begin{array}{r} 3 \\ +\ 5 \\ \hline 8 \end{array}$ 8 nickels

11. $14 - 6 = 8$
    $13 < 23$
    $9 + 7 \neq 14$
    $85 > 62$

12



LIFEPAC TEST 202

1. 148, 150, 153, 155, 156

2. 7 16 7
   16 6 7

3. even odd odd even

4. 0
   0, 5
   0, 2, 4, 6, 8

5. 12, 60
   hour, minutes

6. 4:40

7. 32 34

8. $\begin{array}{r} 4 \\ 3 \\ +\ 10 \\ \hline 17 \end{array}$ $\begin{array}{r} 22 \\ 5 \\ +\ 31 \\ \hline 58 \end{array}$

9. $\begin{array}{r} 7 \\ -\ 4 \\ \hline 3 \end{array}$ 3cookies

10. Suggested Answers:
    6, 1, 4

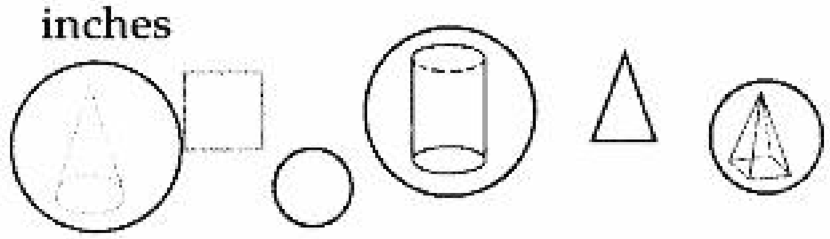
11. 6
    4
    $\frac{4}{6}$

    7
    4
    $\frac{4}{7}$

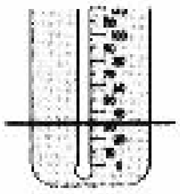
LIFEPAC TEST 203

1. 11 12
2. 1, 5, 7
   100, 50, 7
3. 81 72 91 102
4. 3
   inches
5. 4 4 1 2
6. 85¢ 43¢ $6.91 $1.21
7. AM, PM
8. no
   rectangle
   closed
9. 12, 18, 20
   50, 55, 70
   130, 140, 160
10. 50 10 20
11. 134
    102
12. one hundred thirty
    one hundred three
13. 
14. < ≠ +

LIFEPAC TEST 204

1. 532, 533
   300, 301
2. five hundred twenty-four
3. 8, 0, 5
   800, 0, 5
4. 2 1 4
   5 1 4
5. 669 85 63 63
6. 53 521 422
7. 12 3
   36
8. inches
9. 
10. 85 $\begin{array}{r} 85 \\ -\ 81 \\ \hline 4 \end{array}$
    4 pennies
11. 60 30 50 90
12. 132, 232, 332, 432, 532,
    632, 732, 832, 932
13. $\begin{array}{r} 5 \\ -\ 2 \\ \hline 3 \end{array}$ 3 miles
14. Teacher Check

LIFEPAC TEST 205

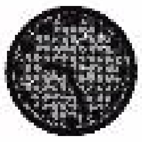
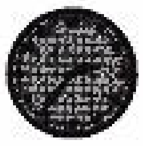
1. 11 > 10 5 < 8
2. 3
   data
   bar
3. 15, 25, 30 plus 5
4. Suggested Answer:
   box of crayons
5. 1 2 3 4 5 6 7 8 9 10 11 12
6. hundreds
   500
7. 732 237
8. place holder
9. $\frac{2}{3}$ $\frac{3}{5}$ $\frac{7}{8}$ $\frac{7}{9}$
10. seventh nineteenth
11. 12
12. 
13. Suggested Answer:

5	2	3	1	2

14.

$7.45	$7.77	$7.28	$3.22	$2.62
49	79	90	24	27
68	76	275	237	311
32	53	597	882	771

LIFEPAC TEST 206

1. 4:56 6:02
2.  
3. 16, 12
   pounds
4.

16	18	58	8
58	23	35	24

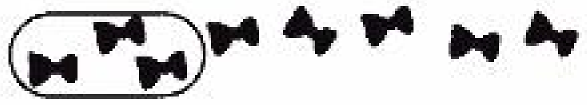
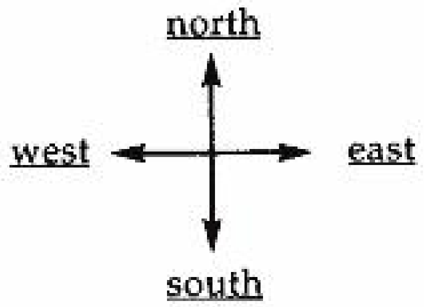
5. 7, 0, 3
   700, 0, 3
   seven hundred three
6. 2
   2
   2
   6
7. 1 2 3 4 5 6 7 8 9 10
8. $\frac{5}{8}$ $\frac{5}{7}$ $\frac{9}{10}$ $\frac{4}{9}$ $\frac{1}{5}$ $\frac{4}{12}$
9. $2.30
   yes
10. $2\frac{1}{2}$
11. <u>3, 7, 10</u>
    $3 + 7 = 10$
    $7 + 3 = 10$
    $10 - 3 = 7$
    $10 - 7 = 3$
12. 671 844
13. 601, 613, 741, 753, 795, 852, 857, 860
14. circle

LIFEPAC TEST 207

1. five-ninths three-fourths
2. 114 799 664 725
   61 351 26 68
3. 4 + 4 = 8 add one more
   26 minus 2
4. $\frac{3}{4}$ $\frac{6}{8}$ $\frac{2}{9}$ $\frac{4}{12}$
   Two-fourths plus one-fourth equals three-fourths.
5. 18 boxes
   $\frac{4}{8}$ box
   2 pennies
6. 11 8 3 12 7 1
   6 9 5 10 4 2
7. five hundred seventy
8. 5, 0, 8
   500, 0, 8
9. 0
   0, 5
   perimeter
   50
   pages
10. 12, 3, 16
    60, 7
11. 72°
12. 
    morning afternoon afternoon

LIFEPAC TEST 208

1. 18 27
   407 100
2. 7
   7
   5
   15
3. <u>6, 9, 15</u>
   6 +9 = 15
   9 + 6 = 15
   15 − 6 = 9
   15 − 9 = 6
4. + ≠ <
   + ≠ >
5. 1 3 0 1 4
6. fourth
   eighth
7. 

   10 inches
8.  3
9. $\frac{5}{7}$ $\frac{7}{12}$ $\frac{6}{8}$ $\frac{1}{5}$
10. 80
    90
11. 953 359
12. 

13. 2 2 4
    cup
14. $5.73 $9.95 651 715
15. 82
16. 46 116

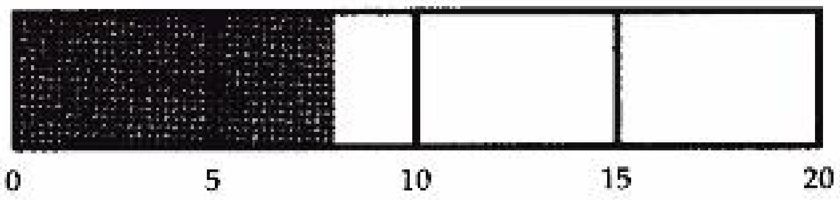
LIFEPAC TEST 209

1. 2 inches
   1 inch
   6 inches
   2 square inches

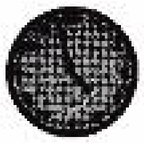
2. 5, 7, 2
   500, 70, 2

3. 805   92

4. west   north   south   east

5. 

6. Teacher Check

7.  PM

8. $\begin{array}{r} 50 \\ 15 \\ +\ 2 \\ \hline 67 \end{array}$

9. 11
   8
   44
   65

10. fourth
    80

11. 85   609
    $\frac{3}{5}$ $\frac{7}{8}$

12. seven hundred eighty
    eight hundred seventeen
    three-fourths   five-ninths

13. <   ≠   +
    >   =   +

14. 20
    odd   odd   even

15. 133   35   328   661 $\frac{7}{8}$ $\frac{8}{12}$

LIFEPAC TEST 210

1. 500   900   300

2. 238 children
   1 quart

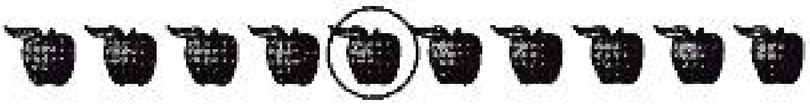
3. 2   3   2
   8   2
   1   5   1   2

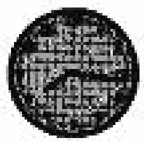
4. odd   even

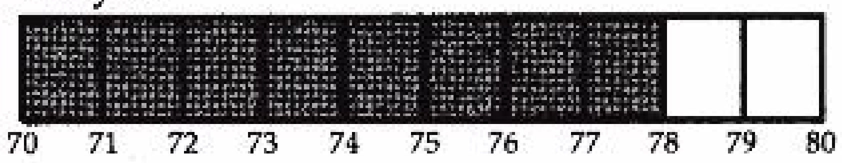
5. thirteen
   eight hundred forty-five
   six dollars and fourteen cents
   seven dollars and six cents

6. 30   426
   $7.59
   $3.70

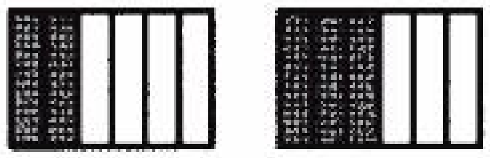
7. 8, 0, 4
   800, 0, 4

8. 

9. 

10. May 11
    

11. 3 inches
    1 inch
    8 inches
    3 square inches

12.  $\begin{array}{r} \frac{2}{6} \\ +\ \frac{3}{6} \\ \hline \frac{5}{6} \end{array}$

13. –, =   +, =

14. $3.50 $\frac{4}{8}$

15. 130   843   17   516 $9.64 $5.15