

# TEACHER GUIDE

PDF



# PRE-ALGEBRA

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# Parents: Course Setup & Login

While the instruction, grading, and Q&A support are provided, a parent or teacher should supervise to ensure the student follows the course instructions. Don't worry, you don't need to know anything about math! Simply follow these steps:

1. Please watch [with](#) your student: [Getting Started](#)
  2. **CRITICAL:** Read [Parent Responsibilities & How to Check Student Work](#)
  4. Print and read these Instruction Sheets with your student.
    - [Reading Assignment Instruction Sheet](#)
    - [Note-Taking Instruction Sheet](#)
    - [Practice Set Instruction Sheet](#)
    - [Quiz Instruction Sheet](#)
    - [Study for Exams Instruction Sheet](#)
  5. Read: [The Timed Method](#)
  6. Required Materials:
    - Select one: [Geogebra Geometry App](#) or a Ruler & Drawing Compass
    - Any Scientific Calculator
    - 2-inch binder and 3-hole paper (blank or college-ruled) for lectures, corrections and practice sets OR a spiral notebook for lectures and corrections, and plain copy paper for practice sets
    - Small spiral notebook (4x6) for formulas
    - Computer or tablet with Internet access and headphones or speakers
  7. To ensure your device is setup for our eLearning system, please follow the: [Computer & Device Setup Instructions](#)
- Parents: Login to the eLearning Campus here [Login Instructions](#)

## Important Resources

[Grade Changes and Resets](#)

[Contact Tech Support](#)

[Transcripts & Credits](#)

[Ask Dr. Shormann](#)

[NCAA](#)

[Comparison to Saxon 8/7](#)

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*Shormann Math combines tried and true teaching methods with 21st Century technology. It is a user-friendly course with video lectures, interactive homework, automated grading, grade recording, step-by-step solutions on video solutions, and Q&A email support.*

*My primary goal is to teach students how math connects to their world and their Creator. I do this by teaching math as the language of science and a tool for understanding God and the world He created. In so doing, I pray that our courses will strengthen the student's relationship with Christ in ways that will help them be productive members of society who seek to glorify God in all they do!*

## Prerequisite

See: [Is My child ready for Pre-Algebra?](#)

## Credits:

1 Prealgebra Credit

## Official Course Description

*Shormann Pre-Algebra is a 21st Century course that teaches all the concepts required to build a firm foundation for upper level mathematics courses. Reviewing arithmetic calculation, measurements, geometry and other skills, this course introduces pre-algebra, square roots, ratios, prime and composite numbers, probability and statistics. Students learn adding/subtracting/multiplying fractions, equivalent fractions, the metric system, repeating decimals, scientific notation, Pi, graphing inequalities, multiplying algebraic terms, the Pythagorean Theorem, the slope-intercept form of linear equations, discrete mathematics, and more. See the full [Scope & Sequence](#)*

## Honors or Standard Course Options

While Shormann Pre-Algebra is an honors level course, it is easily modified for use as a standard course by adding extra credit and using the Standard Grade Scale below.

Learn More: [Credits & Transcripts](#)    [Honors Course Descriptions](#)

### Honors Grade Scale

A – 93-100  
B – 84 – 92  
C – 74 – 83  
D – 65 – 73  
F – 64 or below  
I – Incomplete

### Standard Grade Scale

A – 90 -100  
B – 80 – 89  
C – 70 – 79  
D – 60 – 69  
F – 59 or below  
I – Incomplete

## Using Shormann Math in a Classroom or Co-op

[Shormann Math for Schools](#)

[How to use Shormann Math in a Co-op](#)



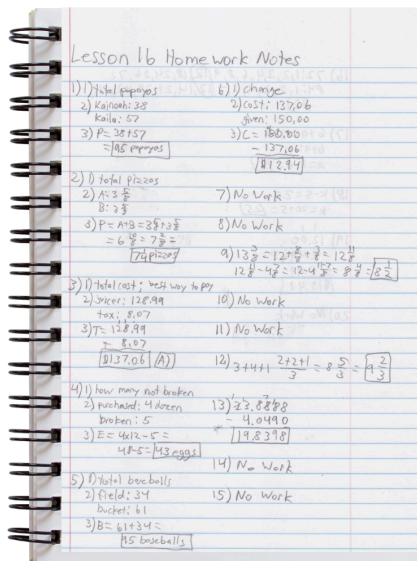
# Parent Responsibilities

While the eLearning course provides all the instruction and grading, it is the parent's responsibility to check their student's work to ensure the student is using the course as directed and to supervise students during the 4 exams. Please follow these steps after each lesson is completed:

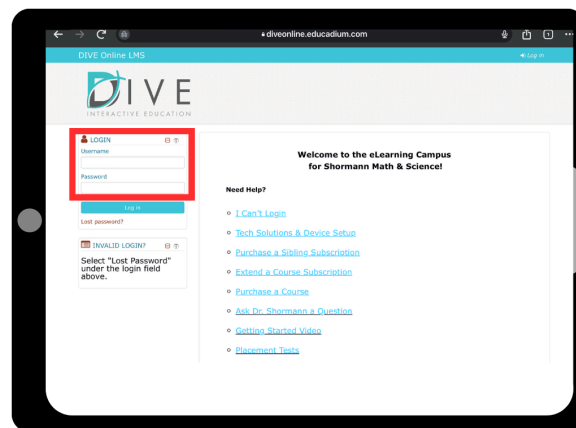
## How to Check Student Work

### I. Check the Lecture Notes

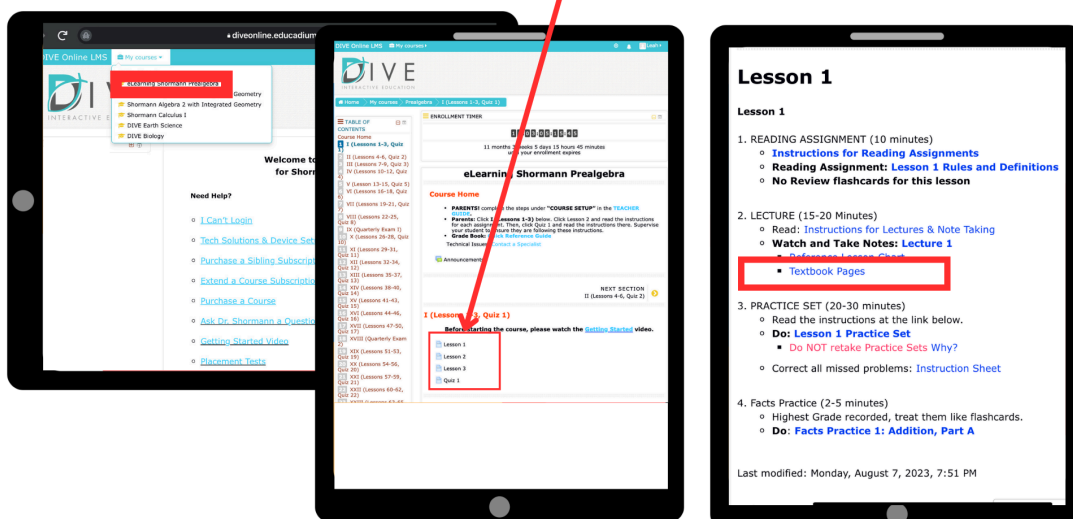
- 1 After each lesson is completed, have the student bring their notebook to you, which should have their notes and corrections.



- 2 Go to [diveonline.educadum.com](https://diveonline.educadum.com). Login using the same login the student uses.



- 3 Place your cursor over "My Courses" then, select "Pre-Algebra".
- 4 In the right menu, select the Lesson #.
- 5 This opens the Assignment Page. Select "Textbook Pages".

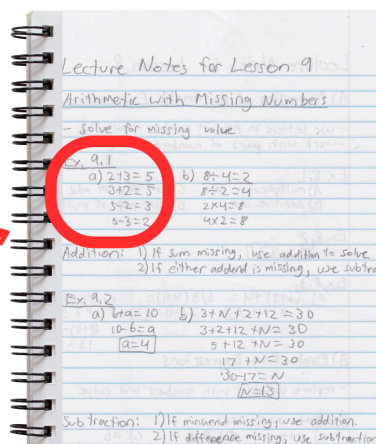
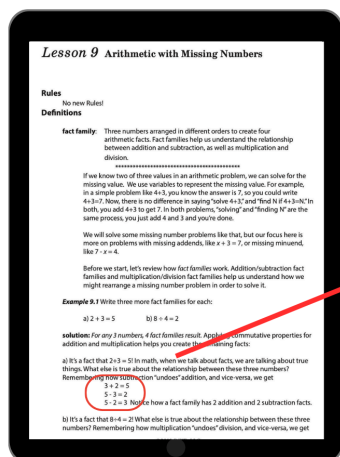




After each example problem is taught, students should **pause** the lecture & **solve** the example problem on their notes.

6

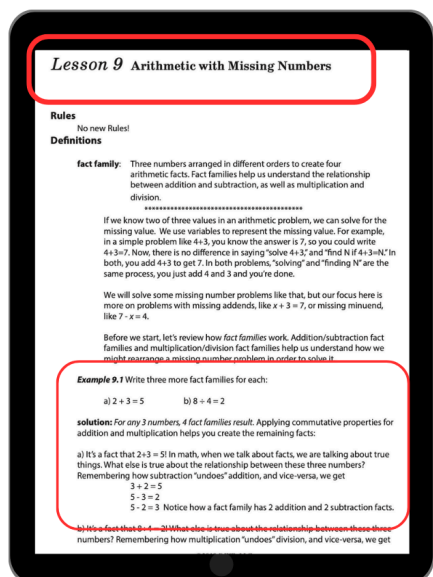
Briefly compare the example problems in the textbook pages to the example problem in the student's notes.



They should also take brief notes with the lesson title, headings, key points, and formulas.



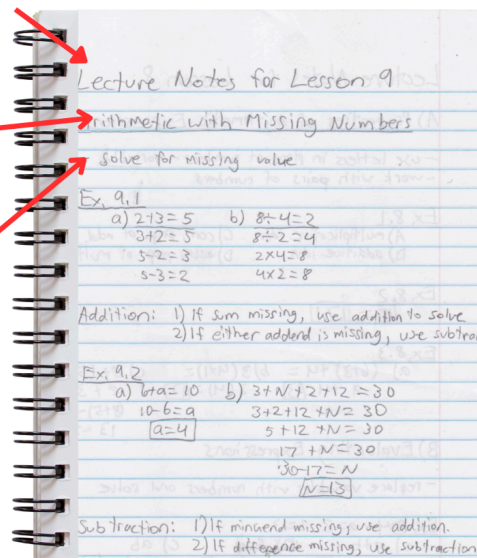
LESSON  
TITLE



HEADINGS



KEY  
POINTS

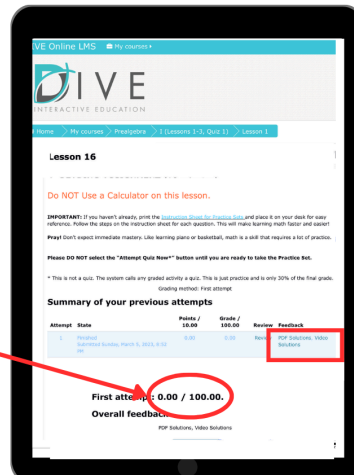


## II. Check the Practice Set

- Go back to the Assignment page then, select the link to the Practice Set.
- Select the link to the "PDF Solutions". If you don't see it, read the note below.



Disregard the grade here. It will be explained in the next step.



### Summary of your previous attempts

Attempt	State	Points / 20.00	Grade / 100.00
1	In progress		

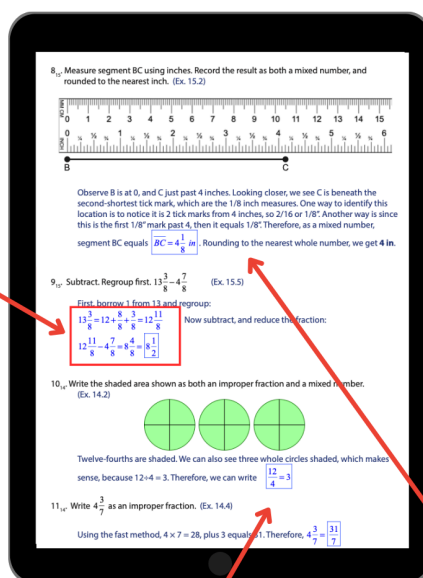
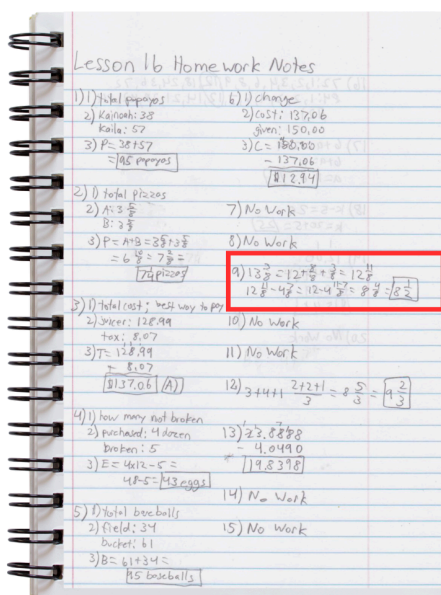
Continue the last attempt

If you see this instead of the PDF solutions link, stop here and refer to #1 in the "Solutions" section.



Before entering or selecting an answer, students should solve each math problem on their Practice Set Notes.

- Briefly compare the PDF Solutions to the student's notes.



If the student does not show work, they may be guessing. Make notes on their paper, finish the remaining steps, then discuss it with the student. Also, see #3 in the "Issues" section.

Questions like #10, are simple calculations that don't require showing work.

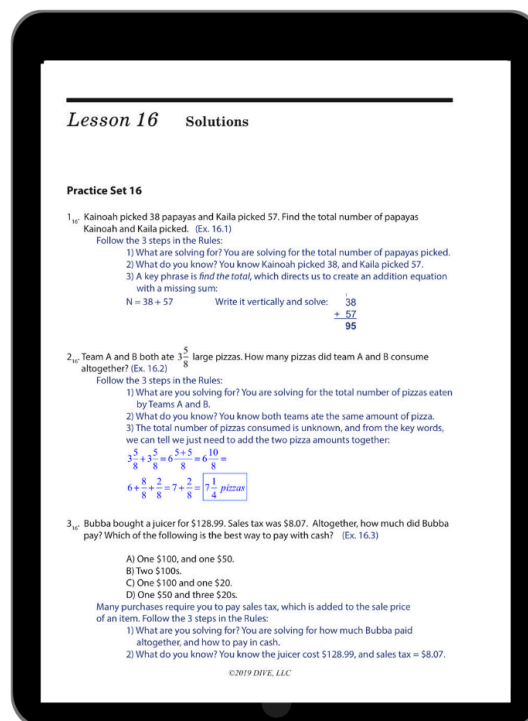
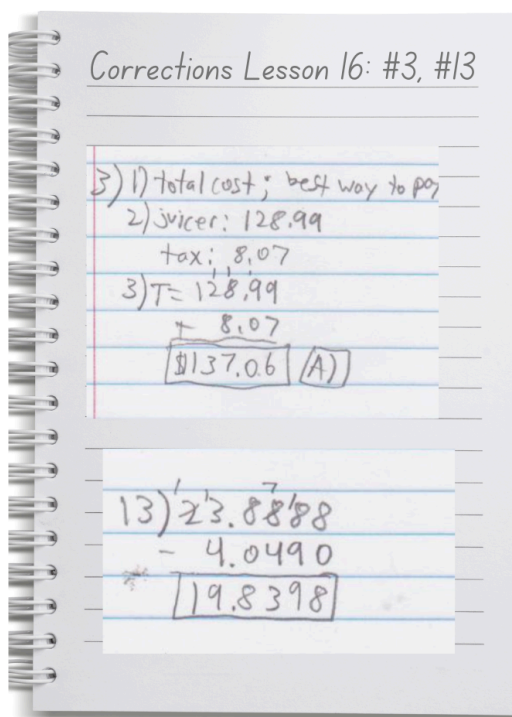
Some questions, like #8, don't require a calculation.

### III. Check the Corrections

After completing the Practice Set, students should **watch the video solutions for each question marked wrong then, solve it correctly on their notes.**

- 1 Compare the corrections on the student's notes to the Solutions PDF

- 2 Did the student solve each incorrect problem on their "Corrections" page?



# ISSUES WITH STUDENT WORK

## Issue #1: Continue Last Attempt

### Summary of your previous attempts

Attempt	State	Points / 20.00	Grade / 100.00
1	In progress		

Continue the last attempt

Do you see this instead of a link to the PDF solutions?

This means the student either did not finish the assignment or they forgot to select the "Submit All & Finish" button.

If the student DID answer all the questions he could, simply click the "Continue Last Attempt" button to submit the assignment. Then, have the student follow the steps on page 2 of the "Instruction Sheet for Practice Sets" to watch the video solutions for missed problems and correct them on paper.

If the student DID NOT answer all the questions he could, he should finish the assignment by following the steps on the "Instruction Sheet for Practice Sets" to answer all the questions he can and submit it. Then, follow the steps on page 2 of the "Instruction Sheet for Practice Sets" to watch the video solutions for missed problems and correct them on paper.

## Issue #2: More than one attempt is listed.

The eLearning course allows students to re-take practice sets to study for exams. But, only the first attempt is recorded in the online grade book.

Because the student sees all the answers after the first attempt, we recommend you use only the first attempt when checking the student's work.

**IMPORTANT:** If you haven't already, print (or open in a new window) and follow the steps on this sheet: [Instruction Sheet for Practice Sets](#)

The Instruction Sheet has important instructions on how to use help links, access the video solutions, ask Dr. Shormann a question, and more!

**Low or Falling Grade: Do NOT retake Practice Sets.** Instead, watch the video solutions and correct as instructed in #6 on the Instruction Sheet.

**When you are ready to start, select "Attempt Quiz Now".**

Note: This is not a quiz. The system calls all graded activities a quiz.

Grading method: First attempt

### Summary of your previous attempts

Attempt	State	Points / 11.00	Grade / 100.00	Review
1	Finished Submitted Saturday, October 10, 2020, 9:13 AM	0.00	0.00	Review
2	Finished Submitted Friday, October 16, 2020, 5:33 PM	5.00	45.45	Review

**First attempt: 65.00 / 100.00.**

Your final grade from this activity was manually adjusted.

Continue the last attempt



## Scheduling

Shormann Pre-Algebra is set up on a 30 week schedule. Since a school year is generally 36 weeks, there are an additional six weeks that can be used when extra time is needed to grasp a concept. A good way to ensure the student has time to relearn as needed, is to use the timed method (below).

### Timed Method: Frustration Free Math

Instead of requiring the student to complete a lesson each day, have Pre-Algebra students work on math for no more than an hour or so per day. At the end of this time, regardless of how much of the lesson is completed, stop the lesson and have them pick-up where they left off the next day. Strong math students can work on math at least 4 days per week and struggling or reluctant math students should work on math 5 days per week.

This allows the student to learn at their own pace, giving them the extra time needed to grasp a new concept or relearn forgotten concepts by rewatching video lessons, studying the help links, etc. On the other hand, when a student is required to complete a lesson per day, they quickly realize that going back and relearning can make the lesson take too long and they will likely skip this critical step. I cannot overemphasize the importance of relearning in the process of developing fluency (speed and accuracy). As fluency develops, the student will complete more and more of the lesson each day. [Frustration Free Learning](#)

### Don't Expect Immediate Mastery

I strongly discourage incorporating "immediate mastery" methods into Shormann Math. For example, some parents and teachers will not let the student progress to the next lesson unless they have completely mastered the current lesson. This can cause discouragement and exasperation.

Just like in sports or music, it takes time to learn a skill. Most students need to practice a skill over several days before mastery is achieved. That's why the Practice Sets review previous concepts over a long period of time. So, please use the system like it was designed, and give your student time to patiently practice and build their skills!

## Focus on Fluency

Fluency means speed and accuracy. The only way to develop fluency is by practicing the skill correctly over a long period of time. Think of a baseball pitcher or a concert pianist. How many times do they practice the same pitch or piece? How many times do they do it wrong while they are learning? Don't be surprised when your child gets the same problem wrong multiple times while they are learning. The key is to relearn the concept and try again.

Conversely, giving the solution before relearning will erode mastery. So instead of “helping” or letting the student see the answer, encourage students to relearn by using the links above each Practice Set question. There is a link to a similar example problem and a link to the video lecture that teaches that concept. Then, after all the questions have been attempted and the assignment is submitted, use the solutions to relearn the missed concepts. In the beginning, this process may be slow and laborious. Be patient, use the timed method, and eventually math will be faster and easier.

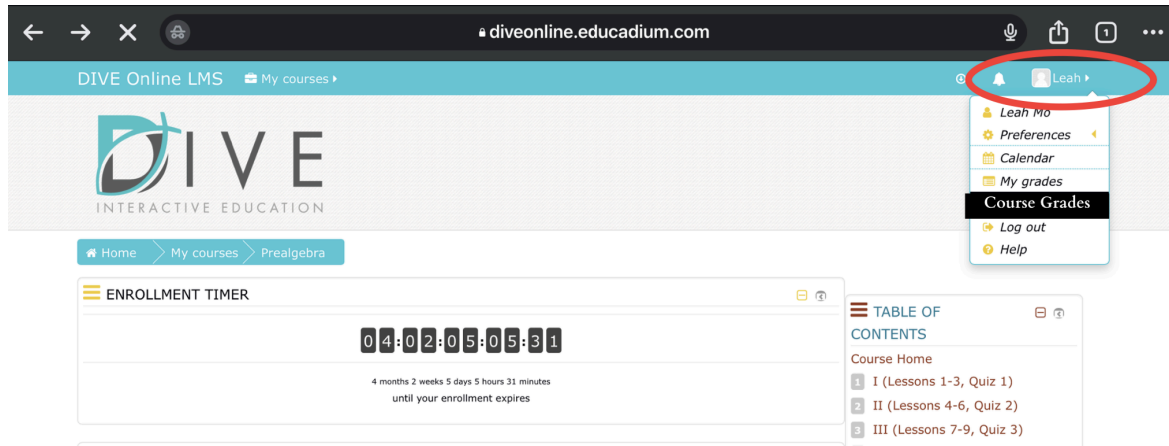
## Course Components

- I. **Lessons:** A daily lesson consists of 4 parts:
  - Reading Assignments (Rules and Definitions): [Instruction Sheet](#)
  - Video Lecture: [Instructions for Lectures](#)
  - Practice Set: [Practice Set Instructions](#)
  - Facts Practices:
- II. **Quizzes:** [Quiz Instruction Sheet](#)
- III. **Quarterly Exams:** [Quarterly Exams Instruction Sheet](#)

# Online Grade Book & Grading

Note: If your student has a learning disability or you are not using the course as instructed (skipping assignments, giving more time on exams, etc.), see the Learning Disabilities section below.

1. Login using the same login as the student, select “My Courses” in the top menu, then select the course title. In the top right corner, select the student’s name, then “Course Grades”.



2. The grade book will open.

## Grade Book: Joe Smith

Assignments	Your Student's Grades		Average Grade of All Students in this Course
	Grade	Percentage	Class Average
<b>Grading Shormann Prealgebra</b>			
Lesson 1 Practice Set	90.00	90.00 %	86.95
Lesson 2 Practice Set	85.00	85.00 %	84.59
Lesson 3 Practice Set	95.00	95.00 %	91.60
Quiz 1(Lessons 1-3)	10.00	100.00 %	9.71
Lesson 4 Practice Set	90.00	90.00 %	93.36
Lesson 5 Practice Set	97.50	97.50 %	94.04
Lesson 6 Practice Set	92.50	92.50 %	91.64
Quiz 2(Lessons 4-6)			



**Grade:** This is your student's grade in points.

**Percentage:** This is your student's grade as a percentage.

**Class Average:** This is **NOT** your student's grade. It's the average grade of ALL the students who have taken this assignment.

### Running Average:

Scroll down to the bottom of the grade book and find the Running Average. This is the grade for all the assignments that have been completed so far. It does not include the zero for assignments that have not been completed. So, as long as the student has not skipped any assignments, this is where you would see the student's current grade based on the assignments they have completed.

Assignments	Grade	Percentage	Class Average
Practice Exam 4.1	-	-	85.38
Practice Exam 4.2	-	-	85.93
Quarterly Exam 4	-	-	82.67
<b>Prealgebra</b>			
Prealgebra Final Grade Include empty grades.	50.18	50.18 %	22.88
<b>Running Average</b>	7341.15	91.99 %	3669.29

Final  
Grade

Running Average - Only Completed  
Assignments

### Final Grade:

This is the grade used at the end of the course for the final grade. It includes the zeros for assignments that were not completed. In this example, only a few of the assignments have been completed so the final grade is very low. At the end of the course, if all assignments are completed, the Final Grade and Running Average are the same. If they are not, see the solutions below.

#### Add Extra Credit to the Final Grade

For details, see "[Optional Extra Credit](#)" below.

#### Transcripts & Credits

For a free transcript template and detailed instructions, see [Transcripts & Credits](#)

## ISSUES WITH THE GRADE BOOK

### Issue 1: Final Grade and Running Average Are Not the Same

This means one or more assignments were not completed. Scroll through the grade book and look for assignments in the "Percentage" column that don't have a grade. See the next section to resolve this issue.

### Issue 2: No Grade in the Percentage Column

1. Select the title of the assignment in the Grade Book.
2. If there is a button that says "Continue Last Attempt", this means the student opened and/or started the assignment but did click Submit All & Finish. Select the "Continue Last Attempt" button, "Finish Attempt" then, "Submit All & Finish".
3. If there is a "Start Quiz" button, this means the student did not start the assignment. You can either leave it as a 0 or have the student do the assignment, which will raise the final grade.

## Grade Weights

The following describes how the grades are “weighted”.

Facts Practice (Drills) = 5%

Practice Sets & Practice Exam: 25%

Weekly Quizzes: 30%

Quarterly Exams: 40%

## Optional: Add Extra Credit

Keep in mind, as the parent and/or teacher, you are responsible for assigning grades. Our grading system is a tool to help you. You are not required to use the grades in the eLearning grade book or follow any of our recommendations. Use the course like you would any other curriculum, like Abeka or Bob Jones.

If your student corrected missed problems for all assignments, extra credit can be added at the end of the course by following the option below. However, this is optional because the eLearning system already includes some extra credit by allowing students to take the exams twice and averaging the scores which is like adding up to 10 points to each exam grade.

**Option 1:** Add up to 3 points to the Final Grade in the Grade Book. (The final grade should not be more than 100.)

**Option 2:** Use the “Simplified Grading Method” below.

After determining the final grade, add it to the Certificate (see below).

## Certificate of Completion

Upon course completion, a certificate of achievement can be printed. Go to the Course Home page, scroll down the left menu, then click **Certificate**. There are detailed instructions on how to save, edit, and print the certificate.

## Learning Disabilities: How to Modify the Timed Quizzes and Exams

While we cannot change the timer on the exams or quizzes, you can give the student more time by following these steps. However, you will need to manually record grades or use the “Simplified Grading Method” (see above) instead of using the online grade book.

### Quizzes: How to Modify the Time

**Parent Supervision Required:** After the first attempt, the Results Page with all the answers is displayed. Quizzes have a 20 minute time limit and four questions. To double the time to 40 minutes, follow these steps:

1. The student should study using the Study Instructions just above the link to the quiz.
2. Have the student take the quiz twice. In the first attempt, complete only the first two questions. In the second attempt, complete the last two questions.
3. Add the two scores together.
4. Have the student correct missed problems by following the Quiz Instructions linked above the quiz.
5. Use the [“Simplified Grading Method”](#) below.

### Exams: How to Modify the Time

**Parent Supervision Required:** The exams are limited to one hour. This method doubles the time to two hours.

1. Study using the Study Instructions linked just above the exam.
2. Have the student take the exam twice. In the first attempt, complete only the first half of the exam. In the second attempt, complete the second half. This gives the student 2 hours to complete the exam.
3. Add the two scores together.
4. Have the student correct all missed problems on paper. If they correct all missed problems, **add 100 points to their grade**. Then, divide it by two. This is the equivalent of giving them two full attempts and averaging the scores.
5. For grade recording and calculating a final grade, see the next section below.

## Grading for Learning Challenged Students

Because students with learning challenges often require many accommodations, instead of using the grades in the eLearning course and submitting multiple grade change requests, manually record the four exams, then use the Simplified Grading Method to calculate the final grade.

### Simplified Grading Method

If you allow your student to skip assignments, modify the time for learning disabilities, etc, the online grade book will not accurately calculate a final grade. Instead, use this simple method to give a completion grade of 90 for all Facts Practice, Quizzes, Practice Sets. This way, you don't need to submit multiple grade change requests or manually record all the scores. All you need is the average of the four exam grades to put in the formula below. This new grade can be added to the Certificate.

**Exam Average:** Add the exam grades and divide by 4.

**Final Grade = Exam Average (.40) + 54**

**For Example:** If the exam average is a 70, it would be:  $70 (.40) + 54 = 82$

To use a different completion grade for the Practice Sets, Quizzes and Facts Practices, use this formula:  $\text{Final Grade} = \text{Exam Average (.40)} + \text{Completion Grade (.60)}$

To calculate an exact score manually, record all the grades, then use this formula:

$\text{Exam Avg. (.40)} + \text{Quiz Avg. (.30)} + \text{Practice Set Avg. (.25)} + \text{Facts Practice Avg. (.05)}$

You can also request a grade change for each assignment by using the "Request A Grade Change Form" on the Course Home page.

# Scope & Sequence

## Shormann Pre-Algebra

To jump to the Course Sequence: [Course Sequence](#)

### Scope

What is Mathematics?
Comparing abstract and concrete
Describing mathematics as “the language of science”
Using the Bible to understand mathematics
God’s attribute of unity and diversity, and connection to mathematics
Discuss math history and founders of modern mathematics
Numbers and Operations
Numeration
Digits
Reading and writing numbers
Ordinal Numbers
Place value
Number line
Expanded notation
Operations
Addition
Addends and sum
Adding whole numbers
Regrouping
Adding decimals
Adding fractions and mixed numbers
Adding signed numbers
Subtraction
Difference, subtrahend, and minuend

Subtracting whole numbers
Regrouping (borrowing)
Subtracting decimals
Subtracting fractions and mixed numbers
Subtracting signed numbers
Mental subtraction strategies
<b>Multiplication</b>
Multiplication as repeated addition
Factors and product
Multiplication table
Regrouping
Multiplication notations: $a \times b$ , $a \cdot b$ , and $a(b)$
Multiplying whole numbers
Multiplying decimals
Multiplying fractions and mixed numbers
Multiplying signed numbers
Mental multiplication strategies
Using “Invisible ones” as factors
<b>Division</b>
Dividend, divisor, and quotient
Dividing with whole numbers
Remainders
Dividing with decimals
Dividing with fractions and mixed numbers
Dividing with signed numbers
Mental division strategies
Division notations: division box, division sign, and division bar
Using “Invisible ones” in the denominator to create a fraction
<b>Powers</b>
Powers as repeated multiplication

Base and exponent
Powers of whole numbers
Powers of decimals
Powers of fractions
Negative exponents
Scientific notation
Relationship of place value to powers of 10
Using “Invisible ones” as exponents
<b>Roots</b>
Square roots
Cube roots
Index
Using a calculator to find roots
Mastering basic facts
Order of operations
Inverse operations
<b>Fraction Concepts</b>
<b>Fractions and Mixed Numbers</b>
Reading and writing fractions and mixed numbers
Numerator and denominator
Fractional part of a whole, group, set, or number
Comparing and ordering fractions
Equivalent fractions
Reducing
Improper fractions
Least common denominator
Converting fractions to decimals and percents
Reciprocals
Complex fractions
<b>Decimals</b>

Reading and writing decimals
Comparing and ordering decimals
Converting decimals to fractions and percents
<b>Percents</b>
Reading and writing percents
Identify/find percent of a whole, group, set, or number
Converting percents to fractions and decimals
Percents greater than 100%
Percent of change
<b>Other Fraction Concepts</b>
Ratios and proportions
Rates
<b>Estimation</b>
Rounding whole numbers
Rounding decimals
Rounding mixed numbers
Estimating sums
Estimating differences
Estimating products
Estimating quotients
Estimating roots
Using estimation to verify reasonableness of calculations
<b>Number Theory</b>
Fact families
Even and odd
Factors, multiples, and divisibility
Prime and composite numbers
Greatest common factor (GCF)
Least common multiple (LCM)
Divisibility tests



Prime factorization
Infinity
Infinitesimals
<b>Number Sets and Number Systems</b>
Counting numbers (natural numbers)
Whole numbers
Decimal number system
Negative numbers
Integers
Rational numbers
Irrational numbers
Real numbers
Roman numerals
Base 2
<b>Measurement</b>
<b>Units</b>
<b>U.S. Customary</b>
Length (inch, foot, yard, mile)
Capacity (cup, pint, quart, gallon)
Weight (ounce, pound, ton)
<b>Metric</b>
Prefixes (milli-, centi-, deci-, deka-, hecto-, kilo-)
Length (meter)
Capacity (liter)
Mass (kilogram)
<b>Temperature</b>
Fahrenheit scale
Celsius scale
<b>Time</b>

Seconds, minutes, and hours
<b>Time Value of Money</b>
Interest rate, savings and debt
Simple interest
What the Bible says about savings and debt
<b>Other Measurement Concepts</b>
Square units
Cubic units
Degrees of arc
Magnetic compass heading
Standard abbreviations
Nonstandard units
<b>Unit Conversion</b>
Conversion in the U.S. Customary System
Conversion in the metric system
Conversion between systems
Simplifying mixed measures
Unit multipliers
Conversion between temperature scales
Using rate as a conversion factor
Currency (money) exchange rates
<b>Measuring</b>
Length
Angles
Benchmarks for measurements
Measurement activities
Estimating activities
Selecting appropriate units
Using metric scales to reinforce decimal concepts
Determining whether measures are reasonable

Determining the precision of a measuring tool
<b>Indirect Measure</b>
Scale factor
Using similar triangles
Transversals and proportions
Scale drawings (two-dimensional)
<b>Tools</b>
Ruler (U.S. Customary and metric)
Protractor
Compass (drawing)
Compass (magnetic)
Thermometer
What the Bible says about correct use of measurement tools
The idea that mathematics is a God-given tool for us to use
<b>Geometry</b>
<b>Basic Terms</b>
Points
Segments
Rays
Lines
Angles
Planes
<b>Lines</b>
Parallel, perpendicular, and intersecting
Horizontal, vertical, and oblique
Slope
<b>Angles</b>
Acute, obtuse, right, and straight
Complementary and supplementary

Angles formed by transversals
Calculate to find unknown angle measures
Angle bisectors
Vertical
Adjacent angles
<b>Polygons</b>
Describing and classifying
Drawing
Sides and vertices
Perimeter
Area
Regular
Similarity and congruence
Complex figures
Interior and exterior angles
Sum of angle measures
Diagonals
<b>Triangles</b>
Perimeter and area
Acute, obtuse, and right
Equilateral, isosceles, and scalene
Proportional triangles
Pythagorean theorem
<b>Quadrilaterals</b>
Squares
Rectangles
<b>Circles</b>
Center
Radius and diameter
Circumference

Pi
Area
Arcs
<b>Solids</b>
Describing and classifying
Faces, edges, and vertices
Drawing
Volume
Surface area
Polyhedrons
Nets (maps)
<b>Perimeter</b>
Polygons
Circles
Complex figures
<b>Area</b>
Triangles
Rectangles
Parallelograms
Trapezoids
Circles
Semicircles and sectors
Complex figures
<b>Volume</b>
Prisms
Cylinders
Pyramids
Cones
Spheres
Estimating volume

<b>Coordinate Geometry</b>
Naming and graphing ordered pairs
Origin
Intercepts of a line
Slope of a line
Creating straight-line drawings
Solving a system of linear equations
<b>Patterns</b>
Defining mathematics as a God-given tool for measuring pattern and shape
<b>Constructions</b>
Circles
Congruent segments
Congruent angles
Angle bisectors
Perpendicular bisectors
Using technology (geometry apps) to do constructions
<b>Transformational Geometry</b>
Rotation
Reflection
Translation
Graphing transformations on the coordinate plane
<b>Geometry in Art</b>
Vanishing point
One-point perspective
Divine proportion
<b>Euclidean Geometry</b>
Euclid and foundations of modern geometry
Axioms
Postulates

<b>Deductive reasoning and Logic</b>
Aristotle and foundations of logic
Comparing inductive and deductive reasoning
Proof
Converse/inverse/contrapositive
Syllogism
Comparing logic and truth
<b>Trigonometry</b>
Basic trigonometry ratios (sine, cosine, tangent)
Connection of trigonometry to right triangles
Connection of trigonometry to proportion
hypotenuse
Using trigonometry buttons on a calculator
Trigonometry applications (measure height)
<b>Algebra</b>
<b>Patterns</b>
Numeric patterns
Geometric patterns
Story-problem patterns
<b>Sequences and Series</b>
Terms
Arithmetic sequences
Geometric sequences
Relationship between sequences and series
Arithmetic series
Geometric series
<b>Sums</b>
Summation Notation
Working with Sums

<b>Integers</b>
Adding and subtracting integers/signed numbers
Multiplying and dividing integers/signed numbers
Absolute value
<b>Algebraic Concepts and Procedures</b>
Variables
Symbols of inclusion
Evaluating
Substitution
Constants
Coefficients
Polynomials
Simplifying
Factoring
Combining like terms
<b>Equations</b>
Solving for an unknown
Solving multi-step equations
Writing an equation for a given word problem
Writing a word problem for a given equation
Transforming equations (using the addition rule and the multiplication rule)
"= means equal," $x=a$ and $a=x$ are the same
Nonlinear equations
Solving simple quadratic equations
Literal equations
Creating and solving a system of equations
<b>Inequalities</b>
Solving
Graphing on a number line
Graphing on a coordinate plane



<b>Functions</b>
Formulas
Input-output tables
Function rules
Graphs
Linear functions
Creating a linear function to solve a problem
Nonlinear functions
Connecting symbolic forms to their graphical shapes
Analyzing functional relationships
Rates
Comparing functions and relations
<b>Properties</b>
Associative property of addition
Commutative property of addition
Associative property of multiplication
Commutative property of multiplication
Identity property of multiplication
Distributive property
Zero property of multiplication
<b>Graphing</b>
Number line
Coordinate plane
Origin
Quadrants
Graphing points
Graphing lines
Graphing parabolas
Graphing hyperbolas
Graphing absolute value functions

Graphing square root functions
Graphing cubic functions
Graphing exponential functions
Graphing inequalities
Slope-intercept form
Writing linear equations from graphs
Writing linear inequalities from graphs
Writing and graphing vertical and horizontal lines
<b>Statistics, Data Analysis, and Probability</b>
<b>Statistics and Data Analysis</b>
<b>Organizing and Analyzing Data</b>
Tables
Frequency tables
Average
Mean, median, mode, and range
Selecting the best measure of central tendency for a given situation
Identifying misleading graphs
Making predictions based on statistics
Linear regression and best fit
<b>Representing Data</b>
Legend (key)
Bar graph
Comparative bar graphs (double-bar graphs)
Histograms
Line graphs
Double-line graphs
Circle graphs (pie graphs)
Pictographs
Venn diagrams

Coordinate planes
Scatterplots and estimating rate of change
<b>Probability</b>
Notations for expressing probability
<b>Theoretical Probability</b>
Simple probability
Chance
Odds
Outcomes
Independent events
Dependent events
<b>Experimental Probability</b>
Performing probability experiments
Accuracy of predictions as affected by number of trials
Compound experiments
Experiment tables
<b>Computer Mathematics Basics</b>
Connection to binary numbers (base 2)
Pixels
Matrices
Connection of computers to idea of continuity and discreteness
Computer memory calculations
Sequences and Series
Sums
<b>Introductory Calculus ( Prealgebra level)</b>
<b>Limits</b>
Understanding Limits
Connecting limits and infinitesimals
Limits of discontinuous functions

<b>Derivatives</b>
Derivative means slope of a line
Notation for derivatives
Connecting derivatives and limits
Derivatives and tangent lines
Calculus and the study of speed (rate of change)
<b>Integrals</b>
Integrals and counting squares on a graph
Connecting integrals and infinitesimals
<b>Problem-Solving Strategies</b>
Break a problem into simpler parts
Act out the problem
Use logical reasoning
Draw a diagram
Draw a picture
Find a pattern
Work backward
Make a chart, graph, or list
Guess and check (trial and error)
Making an educated guess (hypothesis)
Distinguish between relevant and irrelevant information
Find missing information
Extend patterns
Apply solution strategies for simple problems to complex problems
Use an algorithm
Importance of using your imagination in problem solving
Importance of “invisible ones” in problem solving

## Shormann Pre-Algebra Course Sequence

1	Welcome!; What is mathematics?
2	A Brief History of Mathematics
3	Thinking about Number; Origin of Modern Numerals and Arithmetic Symbols
	<b>Week 1 Quiz</b>
4	Place Value and Expanded Notation; Reading and Writing Whole Numbers
5	Types of Numbers; Number Lines; Sequences
6	Arithmetic with Whole Numbers and Money; Subtraction with Negative Results
	<b>Week 2 Quiz</b>
7	Adding and Subtracting Fractions with Common Denominators; Multiplication with Fractions and Reciprocals
8	Properties of Arithmetic Operations; Evaluating Expressions
9	Arithmetic with Missing Numbers
	<b>Week 3 Quiz</b>
10	Factors and Divisibility; Prime and Composite Numbers
11	Fractions and Percents
12	Points, Lines, Rays and Angles; Measuring Angles with a Protractor
	<b>Week 4 Quiz</b>
13	Addition and Subtraction with Decimal Numbers; Rounding to the Nearest Whole Number
14	Equivalent Fractions and Reducing; Improper Fractions; Addition with Mixed Numbers and Regrouping
15	Measuring with Inch and Metric Rulers; Subtraction with Mixed Numbers and Regrouping
	<b>Week 5 Quiz</b>
16	Story Problems About Addition and Subtraction
17	Least Common Multiples; Equivalent Division Problems; Distributive Property of

	Multiplication
18	Multiplication and Division with Decimal Numbers; Reading and Writing Decimal Numbers
	<b>Week 6 Quiz</b>
19	Multiplication with Mixed Numbers, Including Exponents; Story Problems About Differences
20	Adding and Subtracting Fractions with Different Denominators
21	Reducing Fractions Using Prime Factorization; Least Common Multiples and Prime Factorization; Multiplying and Dividing Signed Numbers
	<b>Week 7 Quiz</b>
22	Order of Operations; Simplifying Exponents
23	Dividing Fractions; Division by Zero and by Infinitesimals
24	Division and Writing Answers as Mixed Numbers and Decimals; Dividing by Decimal Numbers
25	U.S. and Metric Length Conversions
	<b>Week 8 Quiz</b>
	<b>Exam 1</b>
26	Operations with Signed Numbers; Graphing Inequalities on a Number Line
27	Absolute Value; Story Problems About Equal Groups
28	The History of Ratio; Story Problems About Parts of a Whole; Two Part Story Problems
	<b>Week 10 Quiz</b>
29	Rational and Irrational Numbers; Number Sets and Number Lines; Prime Factorization and Addition/Subtraction
30	Working with Square Roots; Prime Factorization and Perfect Squares
31	More Operations with Fractions and Decimals; Repeating Decimals
	<b>Week 11 Quiz</b>
32	Fraction/Decimal/Percent Equivalents

33	Fraction of a Whole Story Problems; Fraction/Decimal Part of a Number Story Problems, Part I of II
34	Average, Part I of II
	<b>Week 12 Quiz</b>
35	Rate; Working with Sales Tax
36	What is Algebra?; More Complex Evaluations; Invisible Ones
37	Similarity and Scaling; Rate as a Conversion Factor
	<b>Week 13 Quiz</b>
38	Unit Conversions: Capacity (Volume)
39	Simplifying Algebraic Expressions; Solving Basic Algebra Equations
40	Algebraic Subtraction
	<b>Week 14 Quiz</b>
41	Algebraic Word Problems
42	Perimeter
43	Simplifying Algebraic Expressions: Adding Like Terms
	<b>Week 15 Quiz</b>
44	Euclid; Classifying Triangles
45	Probability: Simple Events
46	Simplifying Algebraic Expressions: Multiplying; Expanding
	<b>Week 16 Quiz</b>
47	Inductive Reasoning; Construction; Estimating Magnetic Compass Headings
48	Simplifying Algebraic Expressions: Factoring
49	Finding Missing Angles
50	Unit Conversions: Temperatures and Exchange Rates
	<b>Week 17 Quiz</b>
	<b>Exam 2</b>

51	The Coordinate Plane
52	More Decimal and Fraction Story Problems (Part II of III)
53	Comparing Similarity and Congruence; Similar Triangles; Polygons
	<b>Week 19 Quiz</b>
54	Product of Square Roots Rule; Pythagorean Theorem
55	Deductive Reasoning and Proofs; Average, Part II(Average Given)
56	More on Finding Missing Angles, Including Transversals; Transversals and Proportions
	<b>Week 20 Quiz</b>
57	Solids and Nets; Power Rule for Exponents
58	Foundations of Analytical Geometry; Percent of a Number Story Problems
59	Geometry in Art (Perspective); Scientific Notation with Large Numbers
	<b>Week 21 Quiz</b>
60	More on Polygons and Angles; Transformations
61	More Simplifying with Negative Exponents; More Order of Operations with Signed Numbers
62	Functions and Relations (no graphing)
	<b>Week 22 Quiz</b>
63	Fraction/Decimal/Percent of a Number Story Problems: Solving for P, D and F (Part III); Percent Increase
64	Scientific Notation with Small Numbers
65	Collecting Data; Making Tables and Graphs
	<b>Week 23 Quiz</b>
66	Domain and Range; Proportion Word Problems, Part I of II
67	Area
68	Functions with Graphing: Linear Functions and x-y Tables
	<b>Week 24 Quiz</b>



69	Volume; Right and Oblique Solids with a Given Base Area
70	Functions with Graphing: Linear Functions and Slope-Intercept Method
71	Proportion Word Problems, Part II: Ratios Involving Totals, Including Percent
72	Operations with Scientific Notation
	<b>Week 25 Quiz</b>
73	Functions with Graphing: Nonlinear Functions
74	Data Interpretation and Representation with Charts
75	The Binary Numeral System; Pixels
	<b>Week 26 Quiz</b>
	<b>Exam 3</b>
76	Functions with Graphing: Domain and Range from Graphs; Dividing Terms and Canceling
77	More on Linear Functions: Creating a Linear Equation to Solve a Problem
78	Simplifying More Complex Operations with Exponents; Evaluating Scientific Formulas
79	More on Linear Functions: Creating a Linear Equation from a Graph
	<b>Week 28 Quiz</b>
80	More on Linear Functions: Horizontal and Vertical Lines
81	Logic: Converse, Inverse and Contrapositive; What is Calculus?
82	Two Step Equations, Inequalities
	<b>Week 29 Quiz</b>
83	More on Linear Functions: Linear Inequalities
84	Systems of Equations; More on Roots and Radical Signs
85	Addition and Subtraction with Mixed Measures; Simplifying Complex Fractions
	<b>Week 30 Quiz</b>
86	Trigonometry Basics
87	Word Problems and Data from a Chart; Bits, Bytes and Binary Numbers

88	Logic: The Syllogism; Surface Area
	<b>Week 31 Quiz</b>
89	Infinitesimals and the Limit
90	The Derivative and Slope; Solving Multivariable Equations
91	Calculus and the Trinity; Area and Volume Conversions
	<b>Week 32 Quiz</b>
92	More on Derivatives and Tangent Lines; Calculus and the Study of Speed
93	Interest Rate, Savings and Debt
94	The Integral and Counting Squares; Imaginary Numbers
	<b>Week 33 Quiz</b>
95	Mean, Median, Mode and Range
96	Probability: Compound Events
97	Linear Regression and Best Fit
	<b>Week 34 Quiz</b>
98	Sequences and Series
99	Sigma Means Sum
100	Matrices
	<b>Week 35 Quiz</b>
	<b>Exam 4</b>

## Shormann Pre-Algebra Assignment Chart

Lesson					
<b>1</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>2</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>3</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 1</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>4</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>5</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>6</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 2</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>7</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>8</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>9</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 3</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>10</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>11</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>12</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 4</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>13</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>14</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>15</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 5</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>16</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>17</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>18</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 6</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	

Lesson					
<b>19</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>20</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>21</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 7</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>22</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>23</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>24</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>25</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 8</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>Practice Exam 1</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Practice Exam 1	<input type="checkbox"/> Corrections		
<b>Practice Exam 2</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Practice Exam 2	<input type="checkbox"/> Corrections		
<b>Exam 1</b> (Attempt 1)	<input type="checkbox"/> Study	<input type="checkbox"/> Take Exam 1	<input type="checkbox"/> Corrections		
<b>Exam 1</b> (Attempt 2)	<input type="checkbox"/> Study	<input type="checkbox"/> Take Exam 1	<input type="checkbox"/> Corrections		
<b>26</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>27</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>28</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 10</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>29</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>30</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>31</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 11</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>32</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>33</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>34</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 12</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	

Lesson					
<b>35</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>36</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>37</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 13</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>38</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>39</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>40</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 14</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>41</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>42</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>43</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 15</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>44</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>45</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>46</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 16</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>47</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>48</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>49</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>50</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 17</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>Practice Exam 1</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Practice Exam 1	<input type="checkbox"/> Corrections		
<b>Practice Exam 2</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Practice Exam 2	<input type="checkbox"/> Corrections		
<b>Exam 2</b> (Attempt 1)	<input type="checkbox"/> Study	<input type="checkbox"/> Take Exam 2	<input type="checkbox"/> Corrections		
<b>Exam 2</b> (Attempt 2)	<input type="checkbox"/> Study	<input type="checkbox"/> Take Exam 2	<input type="checkbox"/> Corrections		
<b>51</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>52</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections

Lesson					
<b>53</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 19</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>54</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>55</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>56</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 20</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>57</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>58</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>59</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 21</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>60</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>61</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>62</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 22</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>63</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>64</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>65</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 23</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>66</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>67</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>68</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 24</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>69</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>70</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>71</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 25</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>72</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>73</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>74</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections

Lesson					
<b>75</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 26</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>Practice Exam 1</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Practice Exam 1	<input type="checkbox"/> Corrections		
<b>Practice Exam 2</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Practice Exam 2	<input type="checkbox"/> Corrections		
<b>Exam 3</b> (Attempt 1)	<input type="checkbox"/> Study	<input type="checkbox"/> Take Exam 3	<input type="checkbox"/> Corrections		
<b>Exam 3</b> (Attempt 2)	<input type="checkbox"/> Study	<input type="checkbox"/> Take Exam 3	<input type="checkbox"/> Corrections		
<b>76</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>77</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>78</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>79</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 28</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>80</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>81</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>82</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 29</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>83</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>84</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>85</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 30</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>86</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>87</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>88</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 31</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>89</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>90</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>91</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 32</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	

Lesson					
<b>92</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>93</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>94</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 33</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>95</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>96</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>97</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 34</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>98</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>99</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>100</b>	<input type="checkbox"/> Reading	<input type="checkbox"/> Lecture	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Practice Set	<input type="checkbox"/> Corrections
<b>Quiz 35</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Take Quiz	<input type="checkbox"/> Facts Drill	<input type="checkbox"/> Corrections	
<b>Practice Exam 1</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Practice Exam 1	<input type="checkbox"/> Corrections		
<b>Practice Exam 2</b>	<input type="checkbox"/> Study	<input type="checkbox"/> Practice Exam 2	<input type="checkbox"/> Corrections		
<b>Exam 4</b> (Attempt 1)	<input type="checkbox"/> Study	<input type="checkbox"/> Take Exam 4	<input type="checkbox"/> Corrections		
<b>Exam 4</b> (Attempt 2)	<input type="checkbox"/> Study	<input type="checkbox"/> Take Exam 4	<input type="checkbox"/> Corrections		