

Arithmetic/ Mathematics

Program

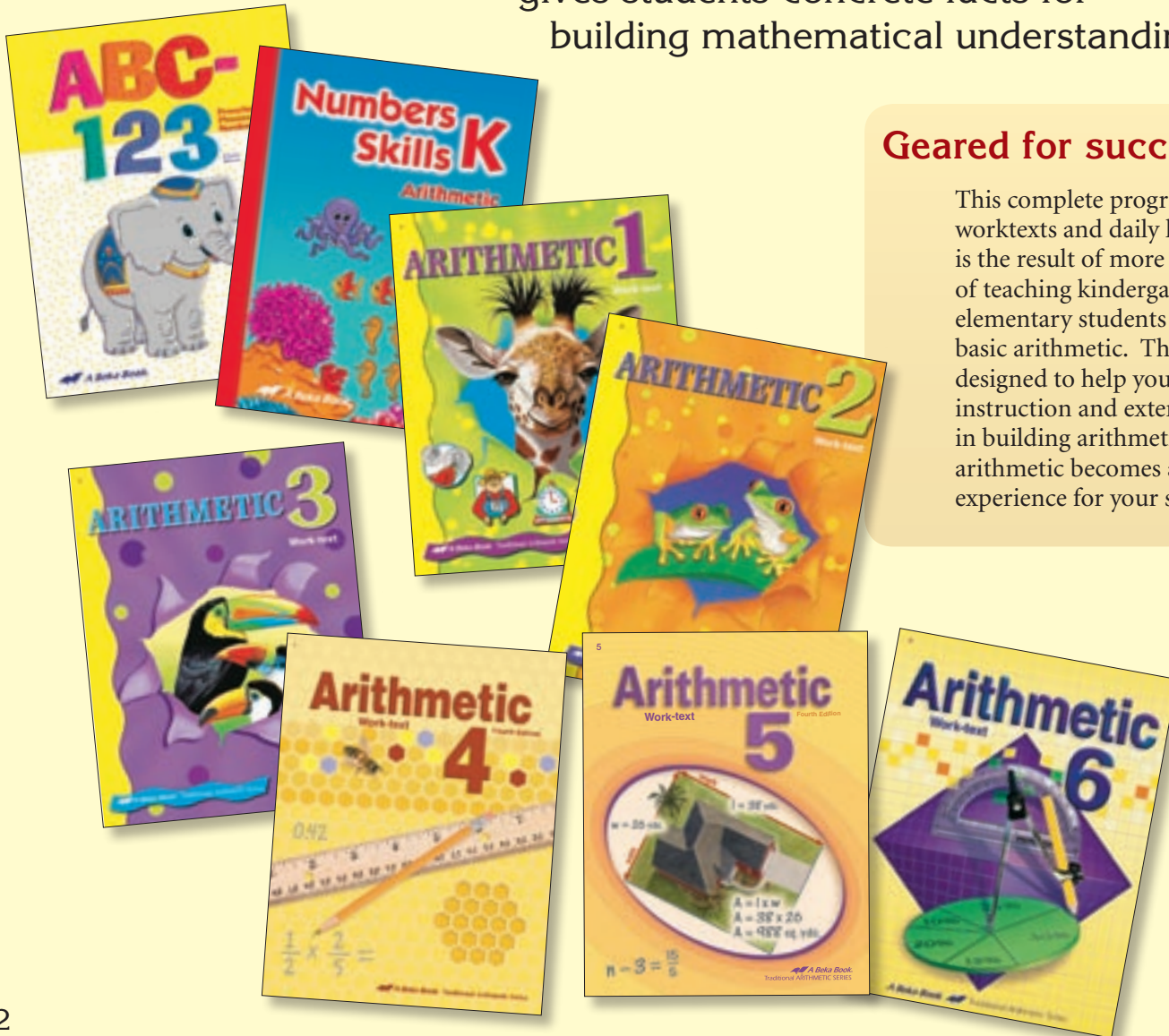


**A traditional
program
geared for
success.**



Traditional arithmetic/mathematics

- stresses God's absolutes in creation
- trains students' mental abilities
- gives students concrete facts for building mathematical understanding



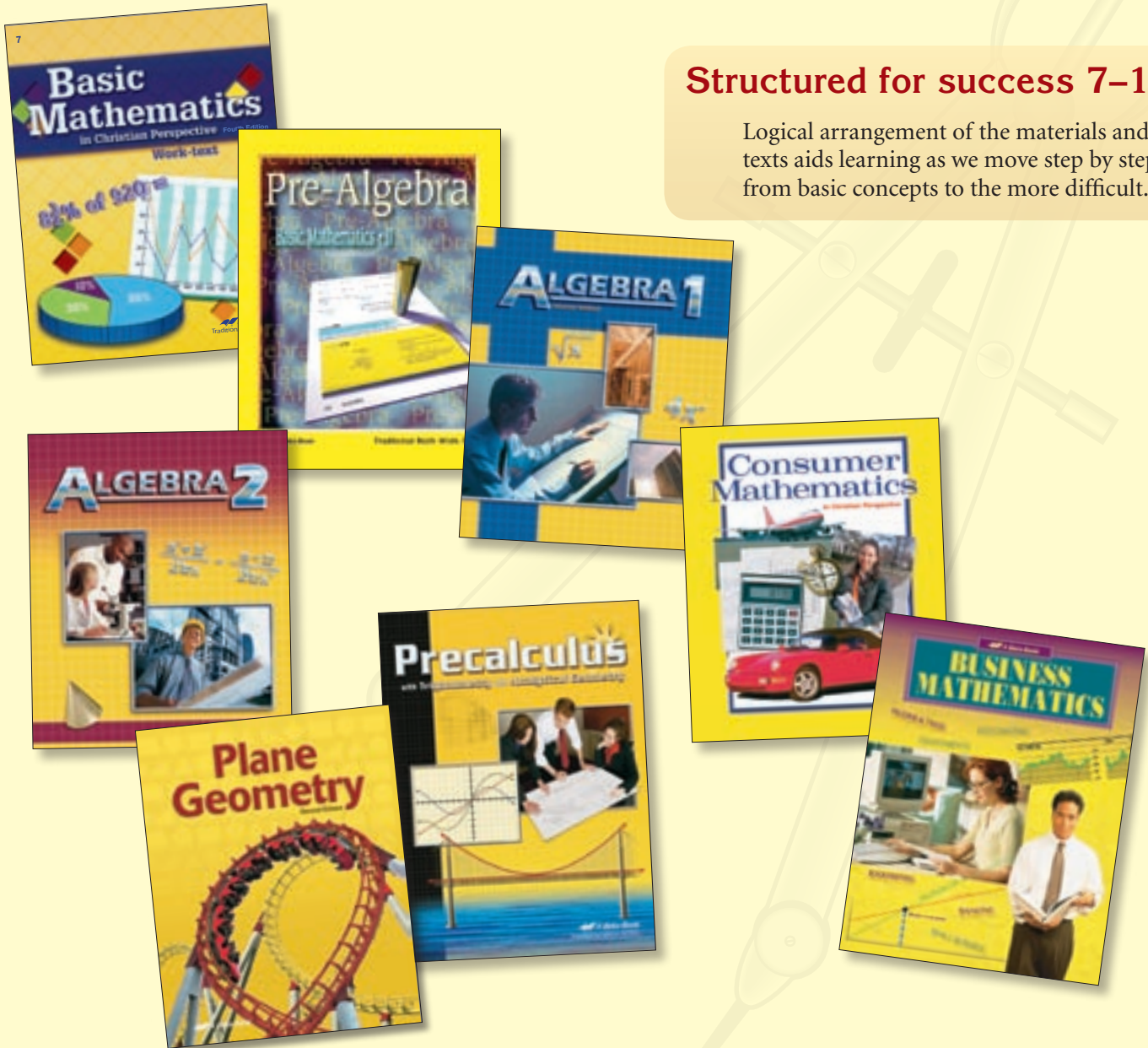
Geared for success K-6

This complete program of worktexts and daily lesson plans is the result of more than 55 years of teaching kindergarten and elementary students to master basic arithmetic. The program is designed to help you provide clear instruction and extensive practice in building arithmetic skills so arithmetic becomes a positive experience for your students.

from a Christian perspective...

Structured for success 7–12

Logical arrangement of the materials and texts aids learning as we move step by step from basic concepts to the more difficult.



Students gain success in concepts,

Spiraling method to skill building

The program's spiral method within each grade and from one grade to the next ensures repetition and continuous maintenance of basic skills.

Arithmetic 2 Seatwork page

1. Continue the counting patterns.

a. 29, 31, _____

b. 145, 150, _____

c. 113, 120, _____

2. What time is it?

3. Mark under the correct temperature.

4. How much money?

5. Write the missing numbers.

Review to keep skills current

Illustrated reviews

Concept explained and illustrated

Practice of new concept

Classwork page

Carrying to the Hundreds' Place

1. Add the ones' column.

2. Add the tens' column. Carry the hundreds to the hundreds' column.

3. Add the hundreds' column.

Practice

1. Write the sums. Add the ones' place. Then add the tens' place. Last add the hundreds' place.

2. It took Maria's family two days to travel to her uncle's house. They flew 175 miles the first day and traveled 154 miles by bus the second day. How many miles did they travel to get to her uncle's house?

Review

1. Write the missing signs.

2. $9 = 12$ $7 < 8$

3. $8 = 2$ $6 > 1 = 10$

4. $5 > 4$ $3 < 4 = 4$

Story problem to build and train in application

Computational practice

Arithmetic 5

Changing Decimals to Fractions

Fact: To change a decimal to a fraction, write the decimal as the numerator and a power of ten as the denominator. Write as many zeros in the power of ten as there are decimal places in the decimal. Always reduce the fraction to lowest terms.

Examples:

$.20 = \frac{20}{100} = \frac{2}{10} = \frac{1}{5}$ An equal number of zeros goes on the numerator and the denominator and is canceled out in the numerator and denominator.

$.25 = \frac{25}{100} = \frac{1}{4}$ Divide 25 and 100 by 25 to reduce to lowest terms.

$.75 = \frac{75}{100} = \frac{3}{4}$ Divide 75 and 100 by 25 to reduce to lowest terms.

Class Practice

1. Complete each problem. (For additional practice, see Supplementary Exercises, p. 107.)

a. $.30 = \frac{30}{100} = \frac{3}{10}$ b. $.20 = \frac{20}{100} = \frac{2}{10} = \frac{1}{5}$ c. $.50 = \frac{50}{100} = \frac{1}{2}$

d. $.10 = \frac{10}{100} = \frac{1}{10}$ e. $.40 = \frac{40}{100} = \frac{2}{5}$ f. $.60 = \frac{60}{100} = \frac{3}{5}$

2. Change these decimal to fractions. Reduce completely.

a. $.20 = \frac{20}{100} = \frac{1}{5}$ b. $.25 = \frac{25}{100} = \frac{1}{4}$ c. $.50 = \frac{50}{100} = \frac{1}{2}$

d. $.75 = \frac{75}{100} = \frac{3}{4}$ e. $.70 = \frac{70}{100} = \frac{7}{10}$ f. $.80 = \frac{80}{100} = \frac{4}{5}$

3. Follow the signs. Answer each if necessary.

a. $0.10 > 0.10$ b. $0.10 < 0.10$ c. $0.10 = 0.10$ d. $0.10 > 0.10$

e. $0.10 < 0.10$ f. $0.10 = 0.10$ g. $0.10 > 0.10$ h. $0.10 < 0.10$

i. $0.10 = 0.10$ j. $0.10 > 0.10$ k. $0.10 < 0.10$ l. $0.10 = 0.10$

Concept explained

Concept examples

Extra practice if needed

Practice of new concept

Practice of recently learned skill

Daily story problems for students to think and apply arithmetic knowledge

Daily review to keep skills current

Fun activities that help students master facts

Additional review to be completed for homework

Review

1. Divide and check. Name of the quotient has a remainder.

a. $412 \div 337 = 1$ b. $100 \div 100 = 1$ c. $100 \div 100 = 1$

2. Solve these equations.

a. $10 \times 10 = 100$ b. $10 \times 10 = 100$ c. $10 \times 10 = 100$ d. $10 \times 10 = 100$

3. Solve these problems.

4. $100 \div 100 = 1$ 5. $100 \div 100 = 1$ 6. $100 \div 100 = 1$ 7. $100 \div 100 = 1$

Homework

1. Complete the following problems.

computation, and application.

Emphasis on problem solving

With emphasis on problem solving, students learn to apply mathematical concepts to real-life situations.

Basic Math (Grade 7)

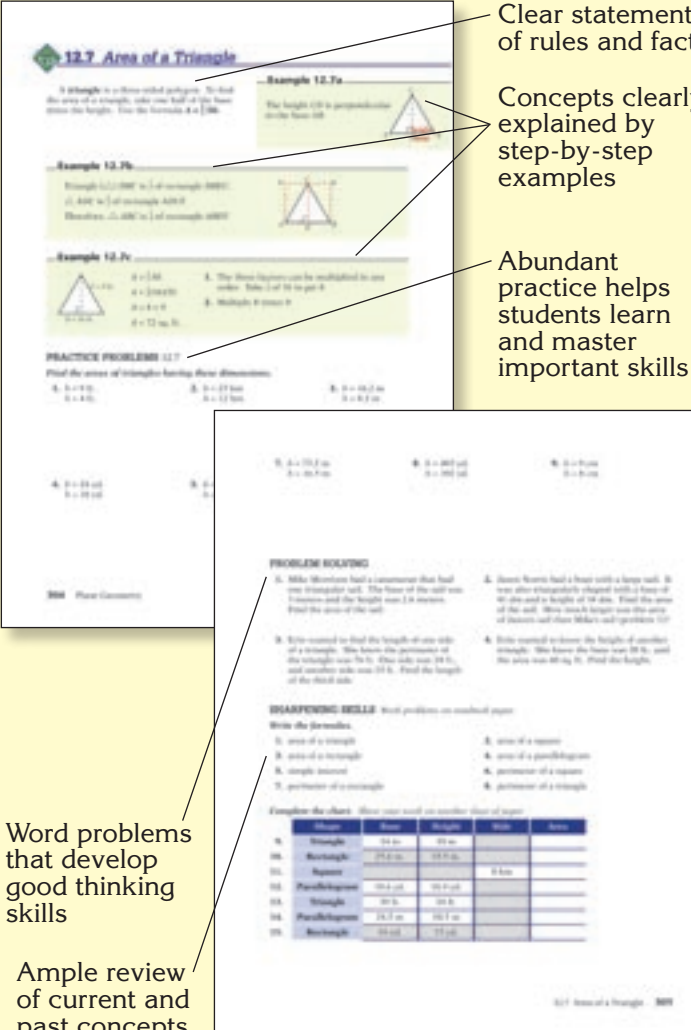
Clear statement of rules and facts

Concepts clearly explained by step-by-step examples

Abundant practice helps students learn and master important skills

Word problems that develop good thinking skills

Ample review of current and past concepts



Traditional approach to mathematics

As students learn concrete facts, they gain understanding, which builds the foundation for more abstract concepts they will encounter later on.

Algebra 1

Lesson divisions guide teachers and students

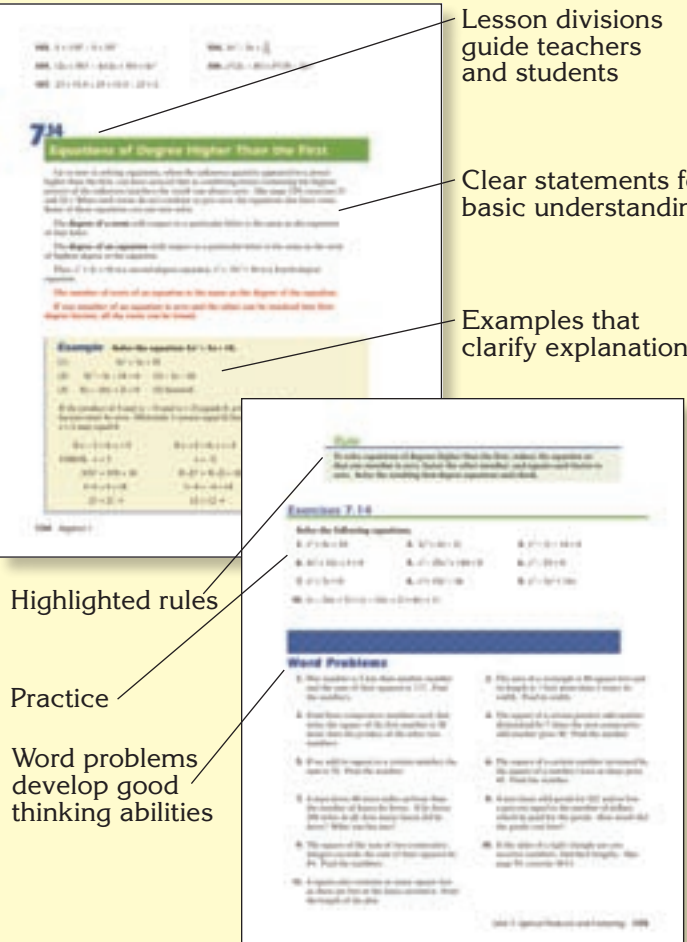
Clear statements for basic understanding

Examples that clarify explanations

Highlighted rules

Practice

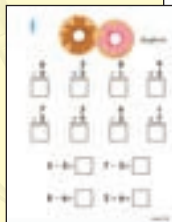
Word problems develop good thinking abilities



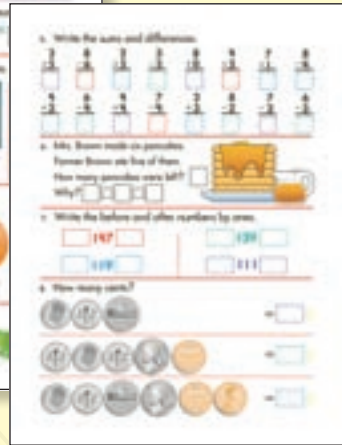
Evaluate student success daily and weekly with assessment

Arithmetic 1 Test and Speed Drill Book

Speed Drill



Test



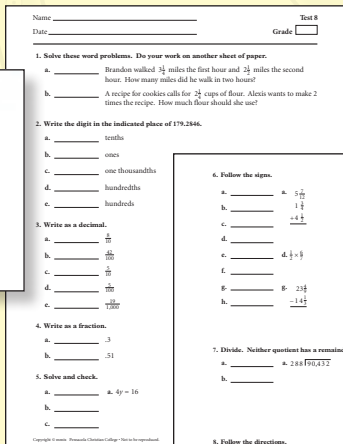
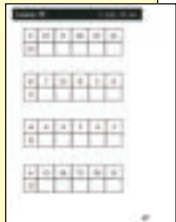
A complete testing program

A set of tests allows you to continually evaluate students' progress. In kindergarten, evaluations are oral and written. For elementary grades, arithmetic combination drills and tests are included for the entire year in the Test and Speed Drill Book. In grades 7–12, test and quiz books are used to assess progress.

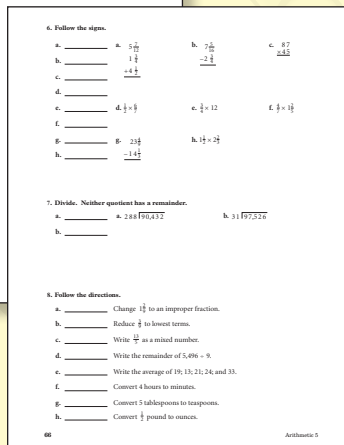
Basic Math Quiz and Test Book

Arithmetic 5 Quiz, Test, and Speed Drill Book

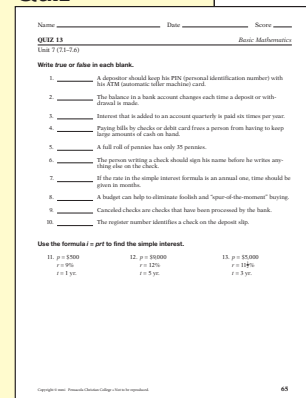
Speed Drill



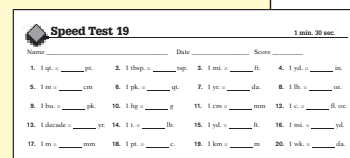
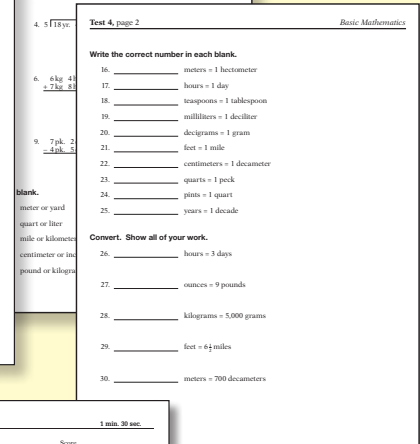
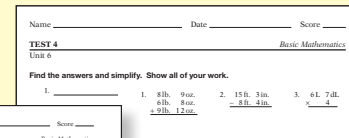
Test



Quiz



Test



Speed Test

Success-oriented teaching visuals

Invaluable support materials

These colorful visuals add variety to instruction throughout the year.

See the *A Beka Book* catalog for complete listing for each grade.

