CURRICULUM SERIES

Mathematics

Parent Guide / Volume 1

TEACHER RESOURCE / VERIFY, RETEACH, ASSESS

Scripture-centered learning with academically sound instruction, clear student work, and independent practice. An original supplementary course, not a certified full-year standards program.

LEARNING LEVELS Foundations (5-7) | Builders (9-10) | Advancing (around 12)

How to use: read each lesson in order. Copy answers into a notebook or use the writing lines provided. Parent guides should be kept separate from students.

Mathematics Course: Parent Teaching Notes and Answers

DOWNLOAD OR COPY: Download Mathematics Lessons 1-10: Parent Answers PDF. The complete selectable, copyable text remains below on this page. Open the PDF to save or print it. Keep parent answers separate from student work.

Companion to the ten-lesson Mathematics student course. Student reasoning and intermediate steps matter. Answers assume problems exactly as stated. Work by demonstrated readiness, not birthday. Keep assessment records private.

Lesson 1: Place value

" Foundations: 17=1 ten and 7 ones; 16>12

" Builders: 2,406=2,000+400+6; ascending 709,790,907; 583 rounds to 580

" Advancing: 6,052,013=6,000,000+50,000+2,000+10+3; -4>-9

Lesson 2: Addition and subtraction

" Foundations: 7+5=12; 10-6=4; 9+8=17

" Builders: 368+475=843; 904-587=317; 35-18=17

" Advancing: -7+12=5; -3-8=-11; 204.75+39.68=244.43; 1002-478=524

Lesson 3: Multiplication and division

" Foundations: 3x4=12; 12/3=4

" Builders: 26x8=208; 144/12=12; 375/5=75

" Advancing: -12x7=-84; 2.4x0.6=1.44; 315/0.9=350; 3(2x+5)=6x+15

Lesson 4: Fractions

" Foundations: One fourth is 1/4; two fourths is 2/4=1/2

" Builders: 6/8=3/4; 3/8+2/8=5/8; 3/4 of 28=21; 5/6-1/3=1/2

" Advancing: 2/3+5/8=31/24=1 7/24; 7/9 / 2/3=7/6; -3/4x8/5=-6/5

Lesson 5: Decimals and money

" Foundations: 100 cents=$1, 50 cents=$0.50; 1 dollar is greater

" Builders: 6.75+3.80=10.55; 12.4-5.95=6.45; .25x60=15; $40 less 10%=$36

" Advancing: 18% of 250=45; $85 less 12%=$74.80; 3.75/.15=25; 40 to 50 rises 25%

Lesson 6: Measurement and geometry

" Foundations: Check direct comparison and correct identification of shapes

" Builders: Rectangle perimeter 26 cm and area 36 cm2; 3 ft=36 in; triangle area 30 square units

" Advancing: Circle area approximately 28.26 cm2; box volume 120 cm3; supplement of 127- is 53-

Lesson 7: Ratios and proportion

" Foundations: 2 red to 1 blue repeated 3 times makes 6 red and 3 blue

" Builders: 12:18=2:3; 4/7=x/28 gives x=16; unit price $0.75 per pencil

" Advancing: 5/8=x/40 gives x=25; 7 cm=84 km; speed 60 mph

Lesson 8: Expressions and equations

" Foundations: 3+2=5

" Builders: x+18=47 gives x=29; 5x=65 gives x=13; 3x-7=20 gives x=9

" Advancing: 4(2x-3)+5x=13x-12; 2(x+4)=3x-1 gives x=9; -2(32)+5=-13

Lesson 9: Data and probability

" Foundations: 3 red, 2 blue, 1 green, total 6 objects

" Builders: 5,7,7,9,12: mean 8, median 7, mode 7, range 7

" Advancing: 2,5,5,8,10: mean 6, median 5, mode 5, range 8; even result on fair die=1/2

Lesson 10: Review

" Foundations: 8+7=15; 14-6=8; 4 groups of two=8; count 16

" Builders: 245+376=621; 72/9=8; 3/4 of 36=27; area 8x7=56

" Advancing: 4x-9=23 gives x=8; 5/6+3/4=19/12=1 7/12; 22% of 150=33; mean 4,8,10,14=9

Instruction and Review Routine

" Before instruction, check prerequisite counting, number recognition, and operations. Model a worked problem, solve a different one together, then ask for independent work.

" When a student misses a problem, ask for the process. Revisit the prerequisite, model a corrected method, then give a NEW problem rather than the same memorized item.

" Separate calculation accuracy from the explanation. Note whether the student independently chose a strategy and checked units.

" Use the official current grade-level mathematics standards for full-year planning; these ten lessons alone do not certify coverage of all standards.

Back to Academy.