

PreK-12 * All Abilities



**Critical
Thinking
Books &
Software**

**Reading * Writing
Math * Science
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30 NEW PRODUCTS *to Empower the Mind*

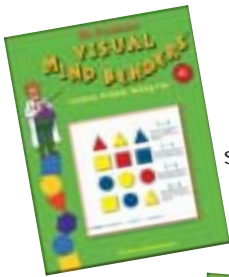


MATH DETECTIVE & SCIENCE DETECTIVE BOOKS & SOFTWARE *Guarantees Higher Grades & Top Test Scores!*

Students develop inferential and deductive thinking skills as they improve their understanding of standards-based math and science. Gr. 3-6. *Math Detective*, pp. 48-50; *Science Detective*, p. 44.

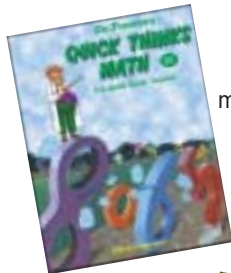
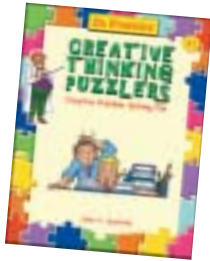


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Builds visual sequencing & classification skills. Gr. 4-12+ p. 17

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—Elizabeth, Educator, Richmond, VA

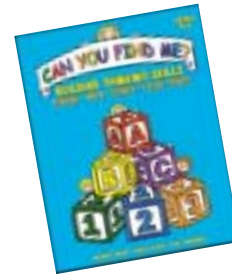
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—Elaine, Specialist, Early Childhood Education, Houston, TX

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—Luine, Educator, Baytown, TX

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Jump-start young minds with thinking skills riddles. PreK-K, p. 5



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—Bonnie, via the Internet

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MATH DETECTIVE™ BOOKS

Higher-Order Thinking
Reading • Writing in
Mathematics

Teaches standards-based math
as students develop reading,
writing, and thinking skills

Goals

Uses topics and skills drawn from state math standards. Prepares your students for more advanced math courses and new assessments that measure reasoning, reading comprehension, and writing in math.

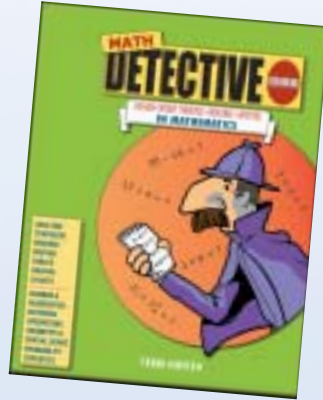
Methods

► Students read a short lesson that includes a chart, table, or graph. Next they answer critical thinking questions to improve their understanding of the lesson and develop their reading comprehension and deductive thinking skills. Students can't just scan the lesson for answers—they must carefully analyze and synthesize the written information, chart, table, or graph to explain and support their answers.

Teaching Support

Includes teacher and student introductions, a lesson explaining the concept of evidence, a chart of Topics and Key Ideas to help select activities, and detailed answers.

- #TBK3901 Beginning Gr. 3–4 \$18.99
38 reproducible activities
- #TBK3902 A1 Gr. 5–6 \$18.99
40 reproducible activities



MATH DETECTIVE BEGINNING LEVEL CONTENTS

- ♦ **Number and Numeration**
addition, subtraction, calendar concepts, division, estimating, fraction concepts, graphing decimals, money, multiplication, odd/even, place value, reading numbers, timeline
- ♦ **Patterns**
addition, logic, money, multiplication, vocabulary (half, less)
- ♦ **Operations**
addition: whole numbers, decimals, fractions
subtraction: whole numbers, decimals
multiplication: whole numbers, fractions
division: whole numbers
- ♦ **Geometry and Spatial Sense**
angles, area, coordinate plane, identifying 3-D shapes, perimeter, parallel, and perpendicular
- ♦ **Probability**
finding odds, equation concepts, division concepts, counting principle, listing combinations
- ♦ **Statistics**
bar graphs, tallies, line graphs, misleading graphs, pictographs, reading/making charts, survey basics
- ♦ **Additional Topics**
associative properties, measurement, time, working backwards, adding/multiplying decimals, division concepts, logical reasoning, whole number operations

MATH DETECTIVE Beginning Patterns

10—The Family Tree

¹All over the world, many families keep records of their ancestors. ²Ancestors are family members that came before your parents, like your grandparents, great-grandparents, etc. ³Tammy asked Grandma Emma to help her make a family tree. ⁴With her grandmother's help, Tammy was lucky enough to get the names of three generations of her family. ⁵A generation is a set of people about the same age.

⁶Tammy's parents are Teresa and Andy. ⁷Teresa's mother and father are called Emma and Joe.

Questions

- Finish Tammy's family tree:

- Did Tammy get any help making her family tree, and if so, from whom? Use a complete sentence to answer.

Write the numbers of the two sentences that give the best evidence for your answer: _____

MATH DETECTIVE Beginning Patterns

- How many generations, not counting Tammy's generation, are shown on the family tree? _____
- Who died when Tammy was a little girl? _____

Write the numbers of the two sentences that give the best evidence for your answer: _____

- Which of Tammy's great-grandparents do you know for sure is still living? _____

Write the number of the sentence that gives the best evidence for your answer: _____

- Who were Teresa's grandparents on her father's side? _____
- Who is Ana's and Mario's grandchild? _____

8. Continue to fill out the chart below.

Tammy	Tammy's parents	Tammy's Grandparents	Tammy's Great-Grandparents	etc.	etc.
1	2	4	—	—	—

Describe the pattern, using a complete sentence.

- Tammy found one picture of each of the people in the chart above, starting with herself and going back five generations. How many pictures did she find? _____ Show your work.

Try this sample activity with your students!

MATH DETECTIVE A1 LEVEL CONTENTS

- ♦ **Number and Numeration**
identity, variables, odds, evens, factors, multiples, least common multiple, divisibility, primes, composites, place value, exponents, money sense, patterns, rounding, addition, subtraction, division, time concepts, adding/subtracting decimals, measurement (miles/feet)
- ♦ **Operations**
four operations with decimals, fractions, and percents
- ♦ **Geometry and Spatial Sense**
angles, congruency, quadrilateral properties, perimeter, areas of squares/circles/rectangles/triangles, volume of rectangle, prism
- ♦ **Probability**
probability—odds, counting principle
- ♦ **Statistics**
line graph, double line graph, bar graph, circle graph, mean (average), interpreting chart data
- ♦ **Pre-Algebra**
order of operations, number line graphing, inequality, addition of integers
- ♦ **Additional Topics**
synthesizing information from multiple sources, multicultural math, history of math, reading a chart, measurement, whole numbers, estimating, multiples, logical reasoning, coordinate graphing (1st quadrant)

Visit teachersmarketplace.com for the complete Contents.

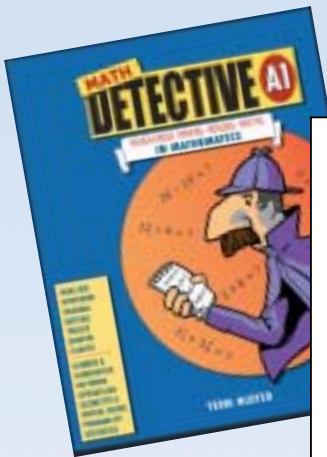
ASSESSMENT TESTS

Math Detective prepares students for many assessment tests, including the ones listed below

- ♦ All State Assessment Tests
- ♦ Otis-Lennon School Ability Test (OLSAT-7)
- ♦ Metropolitan Achievement Test (MAT 7 & MAT 8)
- ♦ Stanford Achievement Test (SAT 9)
- ♦ Iowa Tests of Basic Skills (ITBS®)
- ♦ California Achievement Test (CAT/5)

“Math Detective is an ideal solution for test preparation because it does not teach to a particular assessment. It develops the skills needed to excel on new assessments. In my field testing with students in grades 5–6 and some older students in grades 7–8, Math Detective was highly effective in clarifying topics that students found confusing in previous years.”

—Terri Husted, author



Try this sample activity with your students!

<p>MATH DETECTIVE A1 Numbers & Numeration</p> <p style="text-align: center;">3—Well Rounded</p> <p>¹Daycia, Luis, Joey and Mary each got a four-digit number to round to the nearest thousand. ²Mary said, “When my number is rounded to the nearest thousand it is 5,000.” ³Luis said, “That’s funny, when my number is rounded to the nearest thousand it is also 5,000, but my number before rounding is different from your number.” ⁴Mary said to Luis, “My number is divisible by 3, which means it can be divided by 3 with no remainders, and yours is not divisible</p> <p style="margin-left: 20px;">by 3!” ⁵Luis said, “How do you know that without dividing it?” ⁶Mary said, “When I add the digits of my number, I get a number that 3 goes into evenly, so that means my number is divisible by 3!” ⁷Daycia said, “She’s right because my number happens to be a third of Mary’s number.” ⁸Joey said, “My number is the sum of Mary’s and Luis’s numbers.”</p> <p style="margin-left: 20px;">Remember—a sum is the answer to an addition problem.</p> <table border="1" style="margin-left: 20px; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 2px;">Name</th> <th style="padding: 2px;">thousands</th> <th style="padding: 2px;">hundreds</th> <th style="padding: 2px;">tens</th> <th style="padding: 2px;">ones</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">4</td> <td style="padding: 2px;">7</td> <td style="padding: 2px;">3</td> <td style="padding: 2px;">1</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">4</td> <td style="padding: 2px;">9</td> <td style="padding: 2px;">1</td> <td style="padding: 2px;">5</td> </tr> <tr> <td style="padding: 2px;">Joey</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">Daycia</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> </tbody> </table> <p>Questions</p> <p>1. Which four-digit number shown on the table above is Mary’s number? Use complete sentences to explain your thinking.</p> <p>_____</p> <p>_____</p> <p>Give the numbers of the two sentences that provide the best evidence for your answer: _____</p> <p style="font-size: small;">2 © 2003 Critical Thinking Books & Software • www.CriticalThinking.com • 800-458-4849</p>	Name	thousands	hundreds	tens	ones		4	7	3	1		4	9	1	5	Joey					Daycia					<p>MATH DETECTIVE A1 Numbers & Numeration</p> <p>2. a. Which is Luis’s number? _____</p> <p>b. Prove that Luis’s number is NOT divisible by 3. Show your work.</p> <p>3. Find Daycia’s number. Write it on the chart. Show your work.</p> <p>Give the number of the sentence that provides the best evidence for your answer. _____</p> <p>4. Find Joey’s number. Write it on the chart. Show your work.</p> <p>Give the number of the sentence that provides the best evidence for your answer. _____</p> <p>5. Show that Joey’s number and Daycia’s number are not divisible by 3.</p> <p>6. Are any of the numbers divisible by 2 or 5? _____ Use complete sentences to explain your thinking. _____</p> <p>7. Round Joey’s number and Daycia’s number to the nearest thousand.</p> <p>Joey’s number rounded to the nearest thousand is _____</p> <p>Daycia’s number rounded to the nearest thousand is _____</p> <p style="font-size: small;">© 2003 Critical Thinking Books & Software • www.CriticalThinking.com • 800-458-4849 3</p>
Name	thousands	hundreds	tens	ones																						
	4	7	3	1																						
	4	9	1	5																						
Joey																										
Daycia																										

New!

MATH DETECTIVE™ SOFTWARE

Higher-Order Thinking • Reading • Writing
in Mathematics

Students read for evidence, discover clues, and solve each case to become a 4-star master math detective!

Goals

Uses math mysteries to teach topics and skills drawn from state math standards. These captivating activities prepare your students for more advanced math courses and new assessments that measure reasoning, reading comprehension, and writing in mathematics.

Methods

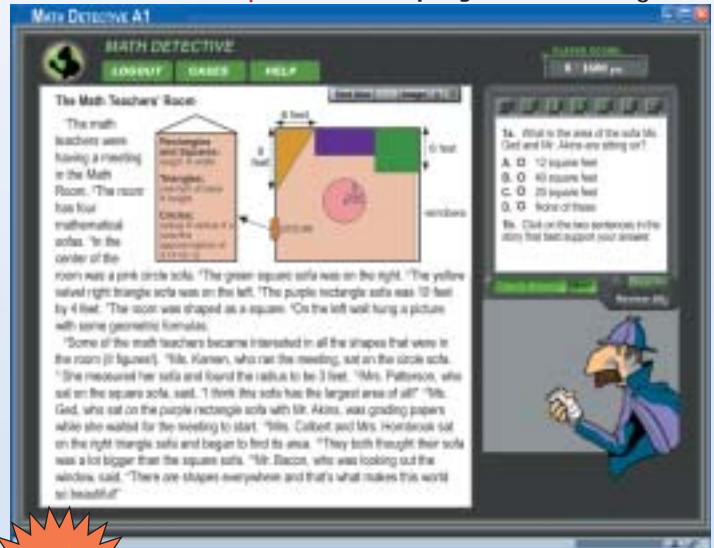
Students solve each math case by reading a short story that includes a chart, graph, or table. Next they answer critical thinking questions to improve their understanding of the lesson and develop their reading comprehension and deductive thinking skills. Students can't just scan the activity for answers—they must carefully analyze and synthesize the written information, chart, table, or graph.

As students successfully complete each case and rise up the detective ladder, they earn printable award certificates and fun reward games.

See *Math Detective* books on pages 48–49 to review the Contents of each level and Assessment Tests for which *Math Detective* helps students prepare.

Gr. 3–6 • Choose from 2 Levels

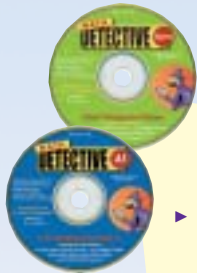
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Requires
reading for
evidence!

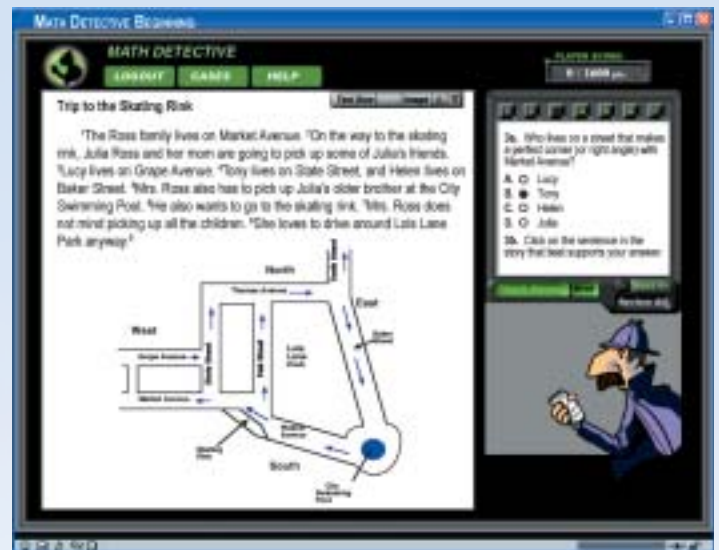
Can your students find the sentence-level evidence that supports the answers shown above and below?

Hybrid CD	\$64.99 Single	\$164.99 Lab (5)	\$296.99 Lab (10)	\$699.99 Site
Beginning Gr. 3–4	TBK03904SCI	TBK03904SCV	TBK03904SCX	TBK03904SCS
A1 Gr. 5–6	TBK03905SCI	TBK03905SCV	TBK03905SCX	TBK03905SCS



MATH DETECTIVE SOFTWARE FEATURES

- ▶ 38–40 activities per CD. Each activity can be done in learning mode or test mode.
- ▶ Self-tutoring: includes quick or detailed instructions, hints, and explanations for correct and incorrect answers.
- ▶ Printable scores and data about each student
- ▶ Saves unfinished games
- ▶ On-screen teaching guide and answer keys
- ▶ Self-grading
- ▶ Password protection



SYSTEM REQUIREMENTS:
WIN: Windows 95+, 800 x 600 res., 64 MB RAM
MAC: OS X, 800 x 600 res., 64 MB RAM

"Math Detective is an ideal solution for test preparation because it does not teach to a particular assessment. It develops the skills needed to excel on new assessments."

—Terri Husted, author

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