

3

New York

NYSTP

GRADE 3

MATH

PRACTICE TESTS

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Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



Build Confidence
with Targeted Practice

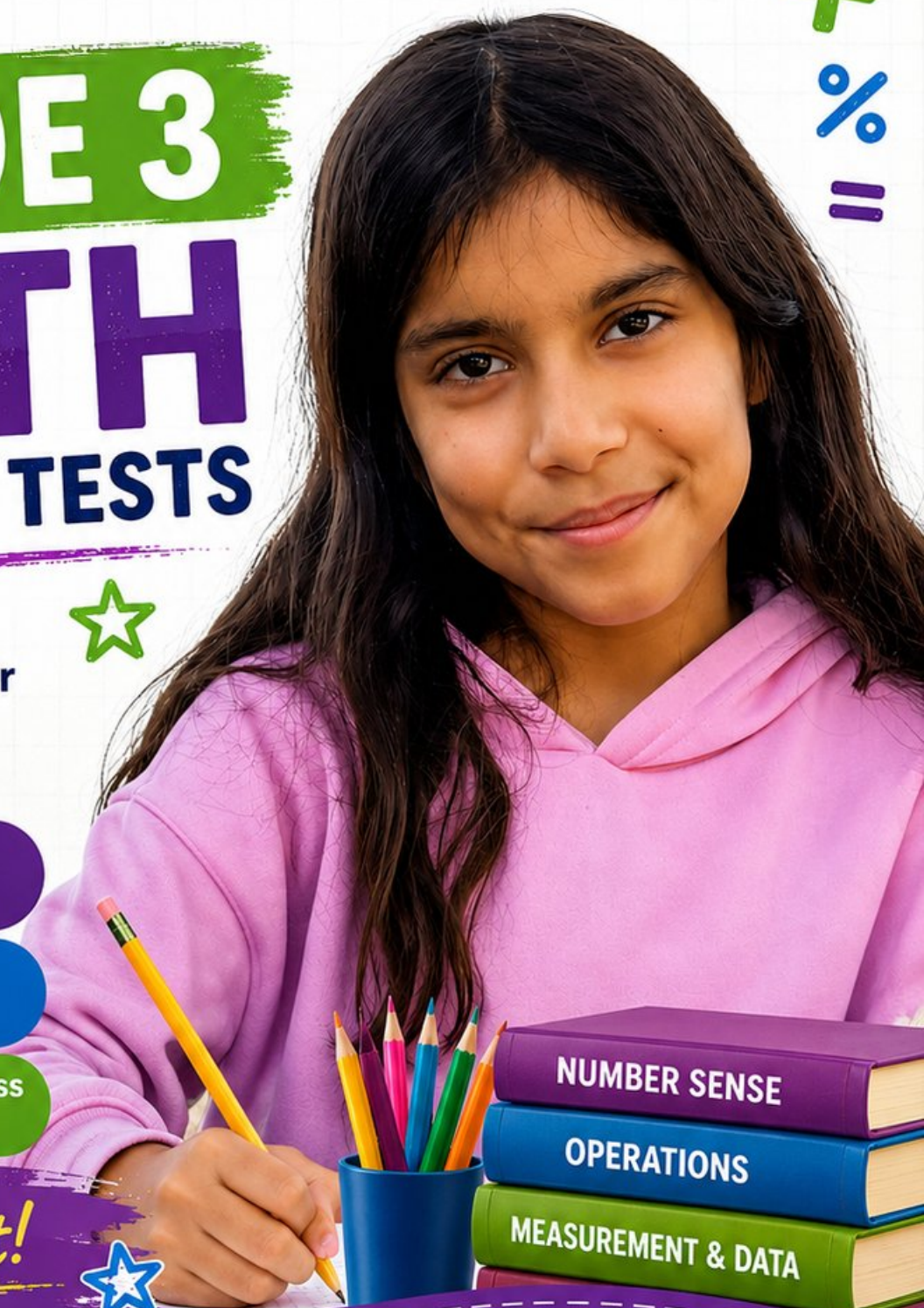


Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice

Be Ready.
Do Your Best!



3 New York NYSTP Grade 3 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 3 review, New York NYSTP strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome to the New York Math Trail

Three tests, one trail, and a stronger Grade 3 thinker at the end



To the Grade 3 Trail Scout

This book is your practice trail for the New York NYSTP. You will multiply and divide, read graphs, work with fractions, measure time, find area, and explain your thinking – one trail marker at a time.

Some problems will feel quick, like a clear stretch of wide open trail. Some will ask you to slow down, draw, count, or try again. That slow part is where strong math grows. Every page gives your brain another chance to spot, choose, and build.

Spot

Read carefully and find what the problem is really asking.

Sketch

Use numbers, arrays, number lines, or labels to make your thinking visible.

Signal

Check that your answer makes sense before you wave the next question on.

Trail promise: I will read like a tracker, sketch like a planner, and check like a careful scout. I do not have to be perfect to keep moving forward.

How to Use This Book

A four-step trail plan that turns practice into progress

Step 1: Pack Your Pack

Read the Quick Review first.
Wake up the Grade 3 ideas you will need before you set foot on the trail.

Step 2: Hit the Trail

Take one full test.
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

Step 3: Campfire Check

Check answers honestly.
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

Step 4: Track Back

Fix a few mistakes.
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

A Three-Week Trail Plan

Week 1	Hike Test 1. Map what feels strong and what needs a second look.
Week 2	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
Week 3	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

Best trail habit: Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



Test Overview

What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the New York NYSTP asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shapes
- two-step word problems and explaining a solution path

What strong NYSTP work looks like: the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.



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1) If you divide a line from 0 to 1 into 8 equal parts, what do you call one of those parts?

A. One eighth

C. One half

B. Eight

D. One whole

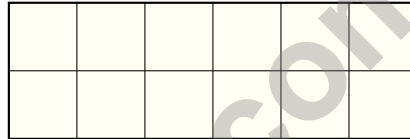
2) A classroom has a floor that is completely covered with square tiles. The floor is 8 tiles long and 5 tiles wide. Does the size of each tile affect how many tiles cover the floor?

A. Yes, bigger tiles need fewer to cover the area

C. Tiles don't affect area at all

B. No, you always need $8 \times 5 = 40$ tiles no matter tile size

D. Area depends only on the number of tiles



3)

How many unit squares are in this rectangle?



4) A painting is 4 inches long and 7 inches wide. What is its area?

A. 11 sq in

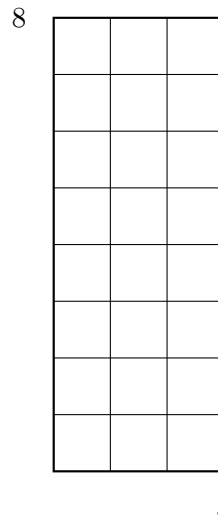
C. 22 sq in

B. 28 sq in

D. 32 sq in



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5)

How many unit squares fit in this tall rectangle?

 A. 11 B. 18 C. 24 D. 83

6) Two identical containers are filled. Container 1 is $\frac{3}{6}$ full. Container 2 is $\frac{1}{2}$ full. Which container has more water?

 A. The containers are different sizes. B. Container 2 has more. C. They have the same amount. D. Container 1 has more.

7) Find $42 \div 6$. (Hint: What times 6 makes 42?)



8) A garden is arranged in an array with 7 rows and 3 plants in each row. How many plants are in the garden?

A. 21

C. 10

B. 19

D. 24

9) $418 + 275 = ?$

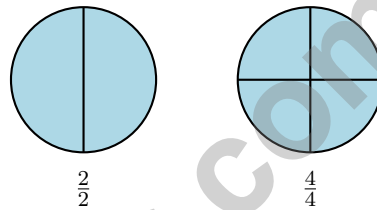
A. 693

C. 683

B. 792

D. 783

10) Look at the circle models. Which shows 1 whole in two different ways?



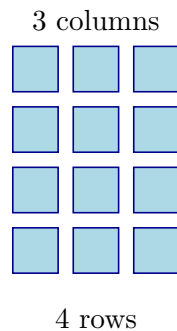
A. Only the left shows 1

C. Only the right shows 1

B. Both show 1 whole

D. Neither shows 1

11) Use the array. Which division sentence does it show?



A. $12 \div 6 = 2$

C. $12 \div 2 = 6$

B. $12 \div 12 = 1$

D. $12 \div 4 = 3$

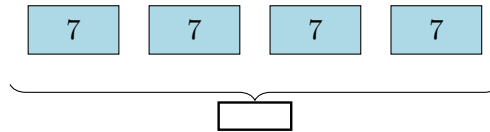


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1) Noah counts unit squares to measure the area of a shape. He gets 9 unit squares. What is the area of the shape?

- A. 3 square units C. 9 square units
 B. 6 square units D. 18 square units

2) A bar shows 4 equal groups. Each group has 7 stickers. How many stickers are there in total?



- A. 28 C. 24
 B. 25 D. 30

3) Complete: $\square \times 8 = 56$. Then write the related division fact.

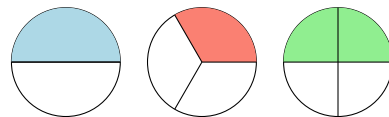
- A. $\square = 7$ and $56 \div 8 = 7$ C. $\square = 6$ and $56 \div 6 = 8$
 B. $\square = 8$ and $56 \div 7 = 8$ D. $\square = 9$ and $56 \div 9 = 8$

4) Lily multiplies: $7 \times 9 = 63$.

Both 7 and 9 are odd. Why is 63 also odd?

- A. Because 7 and 9 are both greater than 5 C. Because 63 is less than 100
 B. Because we added instead of multiplied D. Because odd numbers times odd numbers always make odd

5) Which two circles show equivalent fractions?



Circle 1: $\frac{1}{2}$ Circle 2: $\frac{1}{3}$ Circle 3: $\frac{2}{4}$

- A. Circles 1 and 2 C. Circles 1 and 3
 B. Circles 2 and 3 D. All three circles

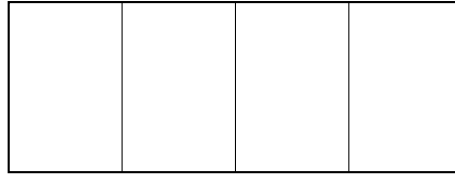


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6) Which is true?

- A. $\frac{1}{8} > \frac{1}{4}$ (8 pieces, so more) C. $\frac{1}{8} = \frac{1}{4}$
 B. $\frac{1}{8} < \frac{1}{4}$ (eighths are smaller pieces) D. $\frac{1}{4} < \frac{1}{8}$ (quarter is less than an eighth)

7) A rectangle is divided with 3 vertical lines making 4 equal columns. How many parts is the rectangle divided into?



- A. 2 parts C. 3 parts
 B. 5 parts D. 4 parts
- 8) Write one multiplication equation for an array with 3 rows and 6 columns.

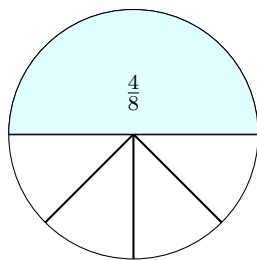
9) Sam marks two number lines. On line 1, he marks $\frac{2}{4}$. On line 2, he marks $\frac{3}{6}$. Are his marks at the same place?

- A. The lines are not the same length. C. No, $\frac{2}{4}$ is further right.
 B. No, $\frac{3}{6}$ is further right. D. Yes, same place.

10) Sam colors $\frac{3}{6}$ of a shape. Write an equivalent fraction.

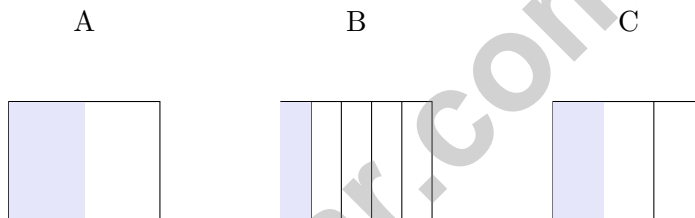


1) Ava uses 4 of her 8 markers. What fraction did she use?



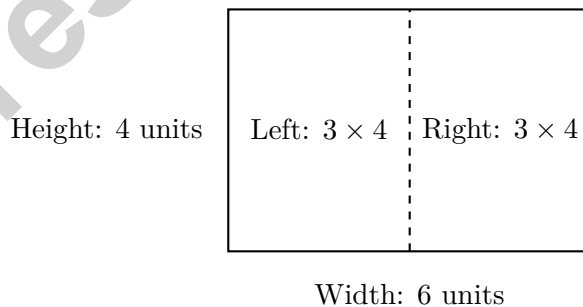
- A. $\frac{1}{4}$
 C. $\frac{3}{4}$
 B. $\frac{1}{2}$
 D. $\frac{1}{8}$

2) Which picture shows $\frac{1}{2}$ shaded?



- A. Picture A
 C. Picture C
 B. Picture B
 D. None of these

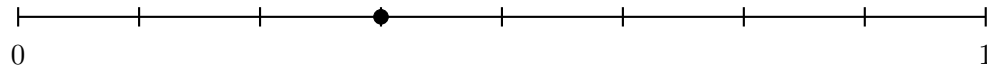
3) Look at this rectangle split by a vertical line:



Which distributive equation matches?

- A. $4 \times (3 + 3) = 4 \times 6 = 24$
 C. $4 \times 3 \times 3 = 36$
 B. $3 + 3 + 4 = 10$
 D. $6 + 4 = 10$

4) A number line goes from 0 to 1 and has 8 equal parts. The point shown is at which fraction?



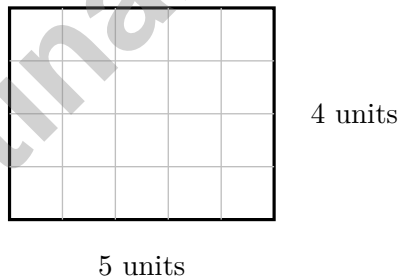
- | | |
|---|---|
| <input type="checkbox"/> A. $\frac{1}{8}$ | <input type="checkbox"/> C. $\frac{3}{8}$ |
| <input type="checkbox"/> B. $\frac{2}{8}$ | <input type="checkbox"/> D. $\frac{4}{8}$ |

5) Round 608 to the nearest 10.

- | | |
|---------------------------------|---------------------------------|
| <input type="checkbox"/> A. 600 | <input type="checkbox"/> C. 610 |
| <input type="checkbox"/> B. 608 | <input type="checkbox"/> D. 700 |

6) A picture graph shows books checked out. Each book symbol is 10 books. Class A checked out 5 symbols, Class B checked out 3 symbols. How many more books did Class A check out?

- | | |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> A. 2 | <input type="checkbox"/> C. 50 |
| <input type="checkbox"/> B. 20 | <input type="checkbox"/> D. 80 |



7)

Count the unit squares. What is the area of the rectangle above?



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Practice Test Answer Keys

How to use this section with a Grade 3 student:

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

A calm correction routine builds stronger math habits.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(3.NF.2a)** One of eight equal parts is called one eighth.
- 2) **Choice A is correct.** **(3.MD.5)** Area is the amount of space covered. Larger square tiles cover more space per tile, so fewer are needed. Smaller tiles need more. The floor area stays the same; only the unit of measurement changes.
- 3) **The correct answer is 12 unit squares.** **(3.MD.5a)** The rectangle is 6 units wide and 2 units tall: $6 \times 2 = 12$ unit squares.
- 4) **Choice B is correct.** **(3.MD.6)** Area = $4 \times 7 = 28$ square inches.
- 5) **Choice C is correct.** **(3.MD.7a)** Tall rectangle: $3 \times 8 = 24$ square units. D is concatenation error.
- 6) **Choice C is correct.** **(3.NF.3a)** $\frac{3}{6} = \frac{1}{2}$. Both containers are half full.
- 7) **The correct answer is 7.** **(3.OA.6)** $42 \div 6 = 7$ because $7 \times 6 = 42$. The multiplication fact helps us solve the division problem.
- 8) **Choice A is correct.** **(3.OA.3)** Multiply: 7 rows \times 3 plants per row = 21 plants.
- 9) **Choice A is correct.** **(3.NBT.2)** Ones: $8 + 5 = 13$ (write 3, carry 1). Tens: $1 + 7 + 1 = 9$. Hundreds: $4 + 2 = 6$. Answer: 693.
- 10) **Choice B is correct.** **(3.NF.3c)** $\frac{2}{2}$ and $\frac{4}{4}$ are both 1 whole. Numerator = denominator means you have all the parts.
- 11) **Choice D is correct.** **(3.OA.2)** The array shows 12 items arranged in 4 rows with 3 items in each row. That division sentence is $12 \div 4 = 3$.
- 12) **Choice C is correct.** **(3.MD.1)** $7 : 29 + 1$ hour = $8 : 29$. Then $8 : 29 + 16$ min = $8 : 45$ AM.
- 13) **Choice B is correct.** **(3.MD.7)** Area = $9 \times 4 = 36$ square meters.
- 14) **The correct answer is $\frac{3}{6}$.** **(3.NF.2)** The third tick out of 6 equal parts is $\frac{3}{6}$.
- 15) **Choice D is correct.** **(3.G.2)** If one part is $\frac{1}{6}$, then the rectangle must be divided into 6 equal parts.
- 16) **Choices A and B are correct.** **(3.NBT.3)** $5 \times 70 = 350$ (multiply $5 \times 7 = 35$, add zero). $7 \times 50 = 350$ (multiply $7 \times 5 = 35$, add zero). C: $7 \times 30 = 210$. D: $5 \times 60 = 300$. E: $5 \times 50 = 250$. Choices A and B equal 350.
- 17) **Choice D is correct.** **(3.OA.8b)** Step 1: Total chickens: $3 \times 7 = 21$ chickens. Step 2: Subtract sold: $21 - 6 = 15$ chickens left.
- 18) **Choice C is correct.** **(3.MD.2b)** Multiply: $400 \times 2 = 800$ g.
- 19) **Choice A is correct.** **(3.MD.8a)** A square has 4 equal sides. $20 \div 4 = 5$ ft per side.
- 20) **Choice B is correct.** **(3.MD.7b)** Representing area as a rectangular array: multiplying the number of unit squares across (6) by the number down (3) gives $6 \times 3 = 18$ square units. Choice A (9) is the sum; C (18) is correct but inefficient for Grade 3 (repeated addition); D (18) arrives at correct answer but uses wrong factors.
- 21) **Choice B is correct.** **(3.MD.5b)** There are 2 rows with 9 unit squares in each row: $9 \times 2 = 18$ unit squares.
- 22) **Choice D is correct.** **(3.OA.7a)** $56 \div 7 = 8$ cookies in each box. Verify: $8 \times 7 = 56$. Distractors: C is $56 - 7$; D is 7×9 .
- 23) **Choice C is correct.** **(3.MD.4)** Looking at the line plot, the mark at $13\frac{1}{2}$ has no X's above it, so there are no measurements at that height.
- 24) **Choice B is correct.** **(3.NF.3b)** The denominator was multiplied by 2 (from 3 to 6). Multiply the numerator by 2: $2 \times 2 = 4$. So $\frac{2}{3} = \frac{4}{6}$.
- 25) **Choice D is correct.** **(3.OA.9)** $4 \times 10 = 40$. This is skip counting by 10 four times: 10, 20, 30, 40.
- 26) **Choice D is correct.** **(3.NF.2b)** Point Q is at the first tick of 4 equal divisions from 0 to 3. That is $\frac{1}{4}$.
- 27) **Choice D is correct.** **(3.OA.1)** $4 \times 5 = 20$, $5 \times 4 = 20$, and $10 + 10 = 20$. But $3 \times 6 = 18$, which is not 20.
- 28) **Choice D is correct.** **(3.G.1)** Both squares and rectangles have 4 right angles (90 degrees). A square also has all equal sides, but a rectangle does not require this.
- 29) **Choice D is correct.** **(3.OA.5)** 4 boxes with 5 markers in each is $4 \times 5 = 20$ markers total.
- 30) **Choice C is correct.** **(3.MD.3)** Team A: $2 \times 2 = 4$. Team B: $3 \times 2 = 6$. Team C: $1 \times 2 = 2$. Total: $4 + 6 + 2 = 12$.



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Hi, Hero!

◇ Once there was a Grade 3 student who took 3 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

Storyteller tip: on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Storyteller

3 GRADE 3 MATH PRACTICE TESTS

Practice Today. *Succeed* Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!

What's Inside?



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Questions designed to cover essential Grade 3 math standards.



Variety of Question Types

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Engaging problems that connect math to everyday life.



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Track improvement and build confidence with every test.



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Strengthen understanding and feel prepared for test day.

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis
- ✓ And More!



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PRACTICE. PREPARE. SUCCEED.