

# 8

# New Hampshire

# NH SAS

## GRADE 3

# MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



8 Full-Length  
Practice Tests



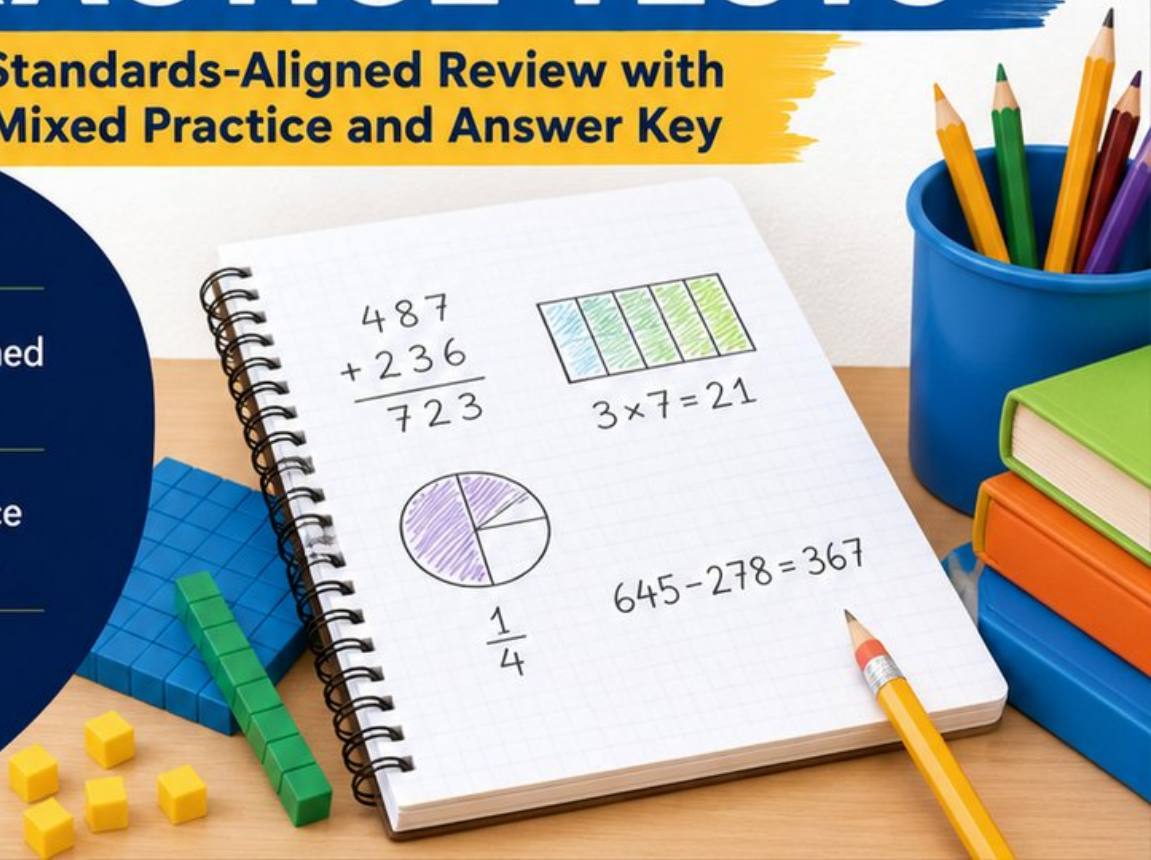
Standards-Aligned  
Questions



Build Confidence  
and Math Skills



Answer Key  
Included



# 8 New Hampshire NH SAS Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Eight complete 30-question practice rounds for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# New Hampshire, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the New Hampshire NH SAS. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

New Hampshire has granite peaks, forest paths, maple farms, clear streams, and thoughtful classroom work, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and climb one step at a time with careful work.

## Your New Hampshire Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

**Eight rounds. Thirty questions each. One careful step at a time.**

# How to Use This Book

A simple eight-round routine for confident review

Use this New Hampshire book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

**Best review habit:** In New Hampshire, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



# What Is Inside the Eight Tests?

## Mixed Grade 3 math practice for the NH SAS

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

**New Hampshire focus:** The practice path starts with granite peaks, forest paths, maple farms, clear streams, and thoughtful classroom work. Strong math uses the same idea: know the path, follow the clues, and check the final answer.

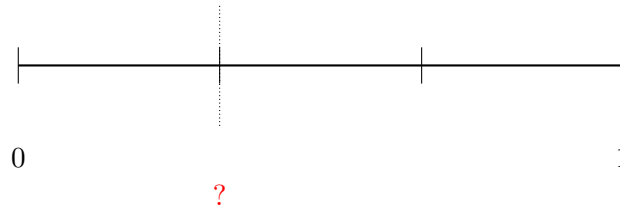


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& answers

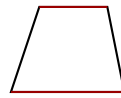
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- 1) A number line from 0 to 1 is divided into 3 equal parts. Where is  $\frac{1}{3}$  located?



- A. At the first tick                       C. At zero  
 B. At the second tick                       D. At one

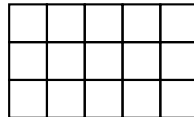


Parallel sides

2)

This shape has exactly one pair of parallel sides. Which name describes this shape?

- A. Rectangle                       C. Trapezoid  
 B. Rhombus                       D. Square
- 3) Look at this rectangle made of unit squares:



How many unit squares are there?

- A. 8 unit squares                       C. 15 unit squares  
 B. 12 unit squares                       D. 20 unit squares



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4) Which time is closest to 2 : 45 PM?

A. 2 : 30 PM

C. 3 : 30 PM

B. 3 : 15 PM

D. 2 : 45 PM

5) A line plot shows test scores: 80 points twice, 81 points once, 82 points once, and 83 points three times. How many scores occur exactly once?

6) Round 92 to the nearest 10.

A. 80

C. 92

B. 100

D. 90

7) An array has 3 rows and 5 columns. How many objects are in the array?







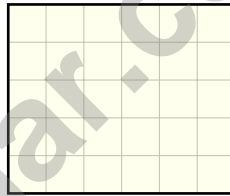
5) A rectangle has length 5 and width 7. If we split the width into  $4 + 3$ , which equation shows the area?

- A.  $5 \times 7 = 5 \times (4 + 3) = (5 \times 4) + (5 \times 3)$      C.  $(5 + 4) + (5 + 3) = 17$   
 B.  $5 + 4 + 3 = 12$      D.  $5 \times 7 = 35$

6) A rectangular kitchen table is 8 feet long and 6 feet wide. What is the area that the table covers?



7) On this grid, how many unit squares cover the rectangle?

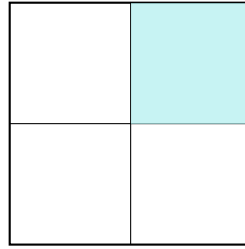


- A. 11 sq units     C. 30 sq units  
 B. 22 sq units     D. 35 sq units
- 8) Lily made 5 flower pots. She put 6 flowers in each pot. What is the total number of flowers?
- A. 11 flowers (adds  $5 + 6$ )     C. 25 flowers (confuses:  $5 \times 5$  instead of  $5 \times 6$ )  
 B. 35 flowers (multiplies by wrong amount)     D. 30 flowers



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- 1) A rectangle is divided with 1 horizontal and 1 vertical line making 4 equal parts.



One part is shaded. What fraction is shaded?

- A.  $\frac{1}{2}$                        C.  $\frac{1}{4}$   
 B.  $\frac{1}{3}$                        D.  $\frac{2}{4}$
- 2) A tile floor has area 18 square feet. Which dimensions could make this area?
- A. 2 ft and 8 ft                       C. 4 ft and 5 ft  
 B. 3 ft and 6 ft                       D. 4 ft and 6 ft
- 3) Complete:  $\square \div 5 = 8$
- A. 35                                       C. 45  
 B. 40                                       D. 13
- 4) A rectangle is covered by 6 unit squares in each row and has 4 rows. What is its area?



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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 turns every missed item into useful practice.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(3.NF.A.2a)** The first tick mark on a number line with 3 equal parts is at  $\frac{1}{3}$ .
- 2) **Choice C is correct.** **(3.G.A.1)** A trapezoid is defined as a quadrilateral with exactly one pair of parallel sides.
- 3) **Choice C is correct.** **(3.MD.C.5b)** Counting rows and columns: 5 units wide and 3 units tall gives  $5 \times 3 = 15$  unit squares.
- 4) **Choice D is correct.** **(3.MD.A.1)** 2 : 45 PM is exactly the time shown, so it is the closest match.
- 5) **The correct answer is 2 scores.** **(3.MD.B.4)** The scores 81 and 82 points each occur once, so there are 2 scores occurring exactly once.
- 6) **Choice D is correct.** **(3.NBT.A.1)** The ones digit is 2. Since  $2 < 5$ , round down: 92 rounds to 90.
- 7) **The correct answer is 15.** **(3.OA.B.5)**  $3 \times 5 = 15$ .
- 8) **Choice C is correct.** **(3.NBT.A.3)** The array shows 6 rows with 20 items each:  $6 \times 20 = 120$  items.
- 9) **Choice B is correct.** **(3.MD.C.7)** Area =  $10 \times 2 = 20$  square meters.
- 10) **Choice A is correct.** **(3.MD.C.7c)** Both smaller rectangles need the same 6-unit side. Then the other sides, 4 and 3, join to make the full rectangle.
- 11) **Choice D is correct.** **(3.NBT.A.2)** Start at 0, jump 150 to get to 150, then jump 300 more to get to 450.
- 12) **Choice D is correct.** **(3.OA.C.7)** 8 rows with 5 in each row:  $8 \times 5 = 40$ .
- 13) **Choice C is correct.** **(3.MD.C.6)**  $8 \times 6 = 48$  unit squares.
- 14) **Choice B is correct.** **(3.NF.A.3d)** Same numerator (3), different denominators, same chocolate bar: fourths are larger pieces than eighths. So  $\frac{3}{4}$  is more than  $\frac{3}{8}$ . Noah has more because he has 3 larger pieces.
- 15) **Choice B is correct.** **(3.G.A.2)** If each part is  $\frac{1}{3}$ , the circle is divided into 3 equal parts.
- 16) **Choices A and B are correct.** **(3.MD.B.3)** A is true because  $3 \times 5 = 15$ , and B is true because  $4 \times 5 = 20$ . C should be 10, not 7; D should be 30, not 35; and E should be 25, not 40.
- 17) **Choice A is correct.** **(3.NF.A.3)**  $\frac{2}{6}$  and  $\frac{1}{3}$  equal the same amount.
- 18) **Choice A is correct.** **(3.OA.A.1)** Three packs with eight erasers each is 3 groups of 8, which equals  $3 \times 8 = 24$  or  $8 \times 3 = 24$ . Option B is the addition misconception. Option C uses only one factor. Option D is incomplete (only two groups).
- 19) **Choice D is correct.** **(3.OA.D.8)** Step 1: Desks in rows:  $4 \times 6 = 24$  desks. Step 2: Add more:  $24 + 8 = 32$  desks total.
- 20) **Choice D is correct.** **(3.MD.C.5)** This is a square:  $6 \times 6 = 36$  square centimeters.
- 21) **Choice B is correct.** **(3.NF.A.3c)**  $10 \text{ halves} \div 2 \text{ halves per whole} = 10 \div 2 = 5$  wholes.
- 22) **The correct answer is 8.** **(3.OA.A.2)**  $16 \div 2 = 8$ .
- 23) **Choice D is correct.** **(3.OA.A.3)** Noah, his 2 friends = 3 people total. Divide:  $18 \div 3 = 6$  crayons each.
- 24) **Choice B is correct.** **(3.NF.A.1)** The rectangle is divided into 6 equal parts. One part is shaded, so the shaded fraction is  $\frac{1}{6}$  (one-sixth).
- 25) **Choice B is correct.** **(3.MD.A.2)** Subtract:  $600 - 400 = 200$  g.
- 26) **Choice C is correct.** **(3.MD.C.5a)** If the shape is covered by 9 unit squares, the total area is 9 square units.
- 27) **Choice A is correct.** **(3.NF.A.3b)** Both rectangles show the same shaded amount.  $\frac{1}{3} = \frac{2}{6}$  because  $\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$ .
- 28) **Choice D is correct.** **(3.OA.A.4)** Divide:  $21 \div 3 = 7$  columns. Check:  $3 \times 7 = 21$ .
- 29) **Choice D is correct.** **(3.NF.A.3a)**  $\frac{2}{6} = \frac{1}{3}$  (one-third). The fraction  $\frac{2}{3}$  (two-thirds) is NOT equivalent because they represent different-size regions. Although both have numerator 2, the denominators 6 and 3 divide the whole differently, so  $\frac{2}{6} \neq \frac{2}{3}$ .
- 30) **Choice B is correct.** **(3.MD.C.7d)** Add all three parts:  $10 + 6 + 6 = 22$  square units.

### Practice Test 2 Answers and Explanations



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## Hi, Strong Climber!

◇ You climbed all 8 tests. One step at a time. That takes patience and grit. The view from the top is amazing because you earned it! ◇

★ **Mountain guides say:** steady steps win the climb. You climbed steady. You stayed strong. ★

### Climber's Skills

- **Strong Steps:** You move forward, problem by problem.
- **Steady Pace:** You don't rush. You don't stop.
- **Map Skills:** You read questions carefully.
- **Top of the Mountain:** You can finish a long test.

**Guide's tip:** on test day, take small breaths between problems. One foot, then the next. You'll reach the top!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Trail Guide

# PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



## EACH PRACTICE TEST INCLUDES:



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Questions



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