3

New Hampshire

NH SAS

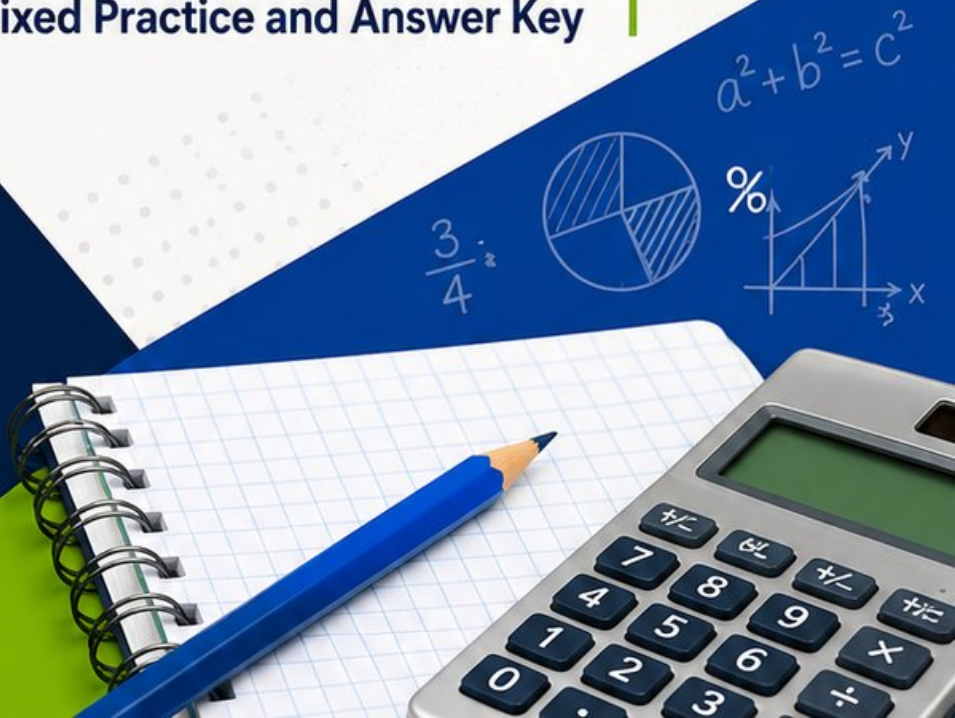
GRADE 4

MATH

PRACTICE TESTS

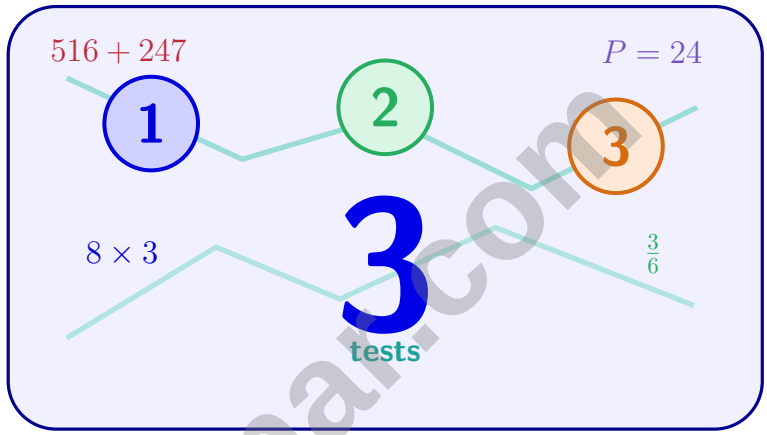
Standards-Aligned Review with Mixed Practice and Answer Key

- **5 FULL-LENGTH** PRACTICE TESTS
- **STANDARDS-ALIGNED** REVIEW
- **MIXED PRACTICE** QUESTIONS
- **ANSWER KEY** INCLUDED



3 New Hampshire NH SAS Grade 4 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



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Three 30-question trail tests packed with Grade 4 review, New Hampshire NH SAS 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, New Hampshire Math Explorer!

Three steady rounds on the Granite State math route

This book gives you three full Grade 3 practice tests for NH SAS. Each round uses granite peaks, forest paths, and crisp math explanations to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

New Hampshire Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

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How to Use This Book

A ten-session routine for New Hampshire NH SAS review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Granite State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.

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For more practice
& answers

What Is Inside?

Three tests, 90 questions, and a full NH SAS review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.

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1) Which quotient and remainder is correct for $849 \div 9$?

☐ A. 93 r6
☐ B. 96 r1
☐ C. 95 r4
☐ D. 94 r3

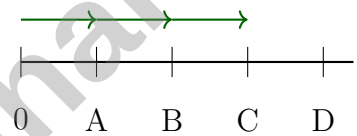
2) Write $\frac{47}{100}$ as a decimal.

☐ A. 0.047
☐ B. 0.47
☐ C. 4.7
☐ D. 47.0

3) Subtract: $7{,}104 - 2{,}356 = ?$

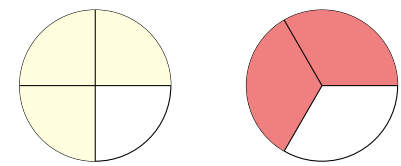
☐ A. 4,748
☐ B. 4,758
☐ C. 5,748
☐ D. 4,648

4) Sam has a number line with hops of $\frac{1}{4}$. Which point represents $3 \times \frac{1}{4}$?



☐ A. Point A
☐ B. Point B
☐ C. Point C
☐ D. Point D

5) Look at the circles. Which fraction is greater?



$\frac{3}{4}$ $\frac{2}{3}$

☐ A. $\frac{3}{4}$
☐ B. $\frac{2}{3}$
☐ C. They are equal
☐ D. Cannot tell

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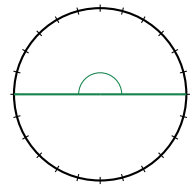
6) Which list shows consecutive multiples of 5 starting at 5?

☐ A. $5, 10, 15, 20, 25$
☐ B. $5, 15, 20, 35, 40$
☐ C. $5, 10, 15, 20, 30$
☐ D. $10, 20, 30, 40, 50$

7)



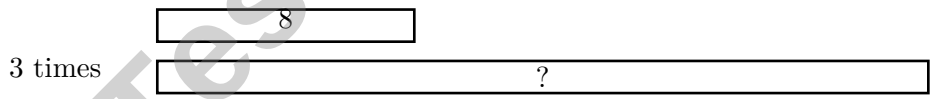
A straight angle is shown with degree tick marks. How many one-degree angles form a straight angle?

☐ A. 90 one-degree angles
☐ B. 180 one-degree angles
☐ C. 270 one-degree angles
☐ D. 360 one-degree angles

8) Noah walked $\frac{5}{6}$ mile before lunch and $\frac{4}{6}$ mile after lunch. Did he walk more than one mile? How much more or less?

☐ A. Yes, $\frac{1}{2}$ mile more
☐ B. No, $\frac{1}{6}$ less
☐ C. Exactly one mile
☐ D. No, $\frac{1}{6}$ more than one

9)



Ethan has 8 trading cards. Lily has 3 times as many trading cards as Ethan. How many does Lily have?

☐ A. 11
☐ B. 16
☐ C. 32
☐ D. 24

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10) A rectangle is divided into 6 equal parts. 4 parts are colored blue. What fraction is blue, shown as a sum of unit fractions?

☐ A. $\frac{1}{6}+\frac{1}{6}+\frac{1}{6}+\frac{1}{6}$
☐ B. $\frac{2}{6}+\frac{2}{6}$
☐ C. $\frac{4}{6}+\frac{2}{6}$
☐ D. $\frac{1}{4}+\frac{1}{4}+\frac{1}{4}+\frac{1}{4}$

11) What is $\frac{4}{10}+\frac{25}{100}+\frac{10}{100}$?

12) How does 0.4 compare to 0.40?

☐ A. $0.4 < 0.40$
☐ B. $0.4 > 0.40$
☐ C. $0.4 = 0.40$
☐ D. $0.4 = 0.04$

13) A window shade is opened by rotating it 104° clockwise. Then it is rotated an additional 76° clockwise. What is the total clockwise rotation?

☐ A. 28°
☐ B. 180°
☐ C. 104°
☐ D. 90°

14) Look at the place-value chart below. What is the value of the digit in the tens place?

Thousands	Hundreds	Tens	Ones
2	3	7	4

☐ A. 7
☐ B. 7,000
☐ C. 700
☐ D. 70

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1) How many $\frac{1}{8}$'s are in $\frac{7}{8}$?

☐ A. 1
☐ B. 7
☐ C. 8
☐ D. $\frac{1}{7}$

2) What is the rule for this pattern? $9, 18, 27, 36, 45, \ldots$

☐ A. Add 8
☐ B. Multiply by 3
☐ C. Multiply by 2
☐ D. Add 9 (multiples of 9)

3) Which number rounds to 40,000 when rounded to the nearest thousand?

☐ A. 39,250
☐ B. 40,750
☐ C. 40,499
☐ D. 40,501

4) Use this place-value table:

Hundred-Thousands	Ten-Thousands	Thousands	Hundreds	Tens	Ones
5	2	1	4	0	6

What is the value of the ten-thousands digit?

☐ A. 2
☐ B. 20
☐ C. 200
☐ D. 20,000

5) In the number 5,391, what digit is in the tens place?

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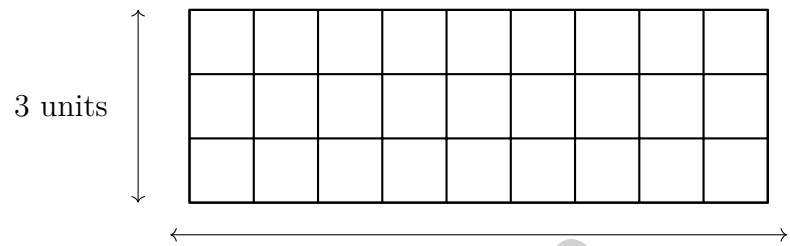
6) A runner completes $\frac{5}{6}$ of a race, then stops for water. After water, she runs $\frac{1}{6}$ more. Did she complete the full race?

☐ A. Yes, she ran $\frac{6}{6}$ or the whole race
☐ B. No, she only ran $\frac{5}{6}$
☐ C. No, she ran $\frac{5}{12}$ of the race
☐ D. Yes, she ran $\frac{7}{6}$ of the race

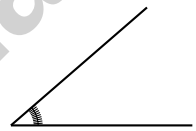
7)



What is the area of the rectangle shown?

☐ A. 27 sq units
☐ B. 24 sq units
☐ C. 12 sq units
☐ D. 36 sq units

8)



This angle has tick marks from 0 to 40 degrees. What is the measure of the angle?

☐ A. 40°
☐ B. 41°
☐ C. 39°
☐ D. 80°

9) Jackson has $3\frac{5}{6}$ cups of juice. He drinks $2\frac{2}{6}$ cups. How much juice remains?

☐ A. $1\frac{3}{6}$
☐ B. $1\frac{2}{6}$
☐ C. $5\frac{7}{6}$
☐ D. $2\frac{3}{6}$

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1) At a corner of a square, what is the angle measure?

2) Diego draws a rectangle with a length of 6 cm and a width of 4 cm. What is the area of his rectangle?

☐ A. 10 sq cm
☐ B. 20 sq cm
☐ C. 24 sq cm
☐ D. 30 sq cm

3) A factory produces 46 widgets per hour. If the factory runs for 12 hours, how many widgets are produced?

☐ A. 552 widgets
☐ B. 598 widgets
☐ C. 485 widgets
☐ D. 621 widgets

4) Add: $\frac{1}{10} + \frac{45}{100}$.

☐ A. $\frac{46}{100}$
☐ B. $\frac{46}{110}$
☐ C. $\frac{55}{100}$
☐ D. $\frac{1}{145}$

5) An isosceles trapezoid has how many lines of symmetry?

☐ A. 0
☐ B. 1
☐ C. 2
☐ D. 4

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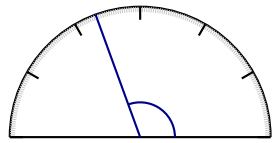
6) Find $2\frac{3}{4} - 1\frac{1}{4}$.

7)



Noah measures this angle. Is it acute, right, obtuse, or straight?

☐ A. Acute (less than 90 degrees)
☐ B. Right (exactly 90 degrees)
☐ C. Obtuse (between 90 and 180 degrees)
☐ D. Straight (exactly 180 degrees)

8)

Cost:	$6 each	×7
Total:	?	

A store buys 7 guitars at $6 each. How much does the store spend in total?

☐ A. $36
☐ B. $48
☐ C. $42
☐ D. $50

9) Complete the table using the rule "multiply by 2 then add 1":

Input	1	2	3	4
Output	3	5	7	?

☐ A. 8
☐ B. 13
☐ C. 11
☐ D. 9

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Practice Test Answer Keys

How to use this section with a Grade 4 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 D is correct.** 4.NBT.B.6 Divide: $84 \div 9 = 9$ r3, bring down the 9 to get $39 \div 9 = 4$ r3. The quotient is **94** with remainder 3.
2) **Choice B is correct.** 4.NF.C.5 Hundredths fill the second decimal place. $\frac{47}{100} = 0.47$, so the answer is **0.47**.
3) **Choice A is correct.** 4.NBT.B.4 In the ones place, $4 < 6$, so we must regroup. The tens place is zero, so regroup from hundreds. Then subtract carefully. The answer is **4,748**.
4) **Choice C is correct.** 4.NF.B.4 Starting at 0, each hop moves us forward by $\frac{1}{4}$. After three hops, we land at $3 \times \frac{1}{4} = \frac{3}{4}$, which is Point C.
5) **Choice A is correct.** 4.NF.A.1 The visual models show the story: $\frac{3}{4}$'s circle is clearly more filled. Verify with twelfths: $\frac{3}{4} = \frac{9}{12}$ and $\frac{2}{3} = \frac{8}{12}$, so $\frac{3}{4} > \frac{2}{3}$.
6) **Choice A is correct.** 4.OA.B.4 Multiples of 5 are what you get when you skip-count by 5: $5, 10, 15, 20, 25, \ldots$ Choice A counts in order with no skips. Choice B jumps $10 \to 20 \to 35$ (gaps); choice C jumps over 25; choice D starts at 10 instead of 5.
7) **Choice B is correct.** 4.MD.C.5 A straight angle is a 180° angle, meaning it turns through **180** one-degree angles.
8) **Choice A is correct.** 4.NF.B.3 Noah walked before and after lunch. Step 1: Add the distances: $\frac{5}{6} + \frac{4}{6} = \frac{9}{6} = 1\frac{3}{6} = 1\frac{1}{2}$ miles, which is more than one mile. Step 2: Find how much more: $1\frac{3}{6} - 1 = \frac{3}{6} = \frac{1}{2}$ mile more than one mile.
9) **Choice D is correct.** 4.OA.A.2 The bar model shows Lily's bar split into 3 equal pieces, each the size of Ethan's 8 cards. Multiply: $3 \times 8 = 24$ trading cards.
10) **Choice A is correct.** 4.NF.B.3 The rectangle has 6 equal parts, and 4 are colored blue. So $\frac{4}{6}$ is blue, which is $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$—four unit fractions.
11) **The correct answer is $\frac{75}{100}$.** 4.NF.C.5 Convert the first fraction: $\frac{4}{10} = \frac{40}{100}$. Now add all three: $\frac{40}{100} + \frac{25}{100} + \frac{10}{100} = \frac{75}{100}$.
12) **Choice C is correct.** 4.NF.C.5 A trailing zero doesn't change the value. Both 0.4 and 0.40 represent the same amount: 4 tenths, or 40 hundredths.
13) **Choice B is correct.** 4.MD.C.7 The window shade rotates twice. Add both rotations: $104° + 76° = \mathbf{180°}$.
14) **Choice D is correct.** 4.NBT.A.1 Looking at the chart, the digit in the tens place is 7. Its value is $7 \times 10 = \mathbf{70}$. ✓
15) **Choice C is correct.** 4.NBT.B.5 Check each product: A: 280, B: 400, C: $18 \times 20 = 360$, D: 480. Only 360 is between 300 and 400.
16) **Choice B is correct.** 4.MD.A.1 Since 1 gallon = 4 quarts, divide: $36 \div 4 = 9$ gallons. The answer is **9** gallons.
17) **Choice D is correct.** 4.OA.B.4 Circles in each figure: 1, 3, 6. The increases are +2, then +3. Next increase is +4: $6 + 4 = \mathbf{10}$ circles.
18) **The correct answer is A, C.** 4.NF.B.4 A: Four runs of $\frac{3}{5}$ mile each means $4 \times \frac{3}{5}$. C: Four cookies at $\frac{3}{5}$ ounce each means $4 \times \frac{3}{5}$. B would be 3× (tripling), D is 2× (two bottles), E is division.
19) **Choice C is correct.** 4.G.A.2 A rhombus has the property of having all four sides equal. Rectangles have opposite sides equal, but not all four sides equal (unless it's a square). Both shapes have two pairs of parallel sides. The answer is **C**.
20) **Choice C is correct.** 4.NF.B.4 Each jump is $\frac{1}{3}$. Making 6 jumps is the same as $6 \times \frac{1}{3} = \frac{6}{3}$. Since 3 thirds make one whole, $\frac{6}{3}$ equals **2** wholes.
21) **The correct answer is $5\frac{1}{4}$.** 4.NF.B.3 Add the wholes: $3 + 1 = 4$. Add the fractions: $\frac{2}{4} + \frac{3}{4} = \frac{5}{4} = 1\frac{1}{4}$. Combine: $4 + 1\frac{1}{4} = \mathbf{5\frac{1}{4}}$.
22) **Choice C is correct.** 4.NF.B.4 We take 2 copies of $\frac{2}{5}$. Multiply: $2 \times \frac{2}{5} = \frac{2 \times 2}{5} = \frac{4}{5}$. The answer is $\mathbf{\frac{4}{5}}$.
23) **Choice D is correct.** 4.MD.B.4 The lowest value on the line plot is 0 inch and the highest is 1 inch. The range is $1 - 0 = \mathbf{1}$ inch.
24) **The correct answer is 9.** 4.NF.A.1 The denominator changes from 5 to 15. What times 5 makes 15? $5 \times 3 = 15$. So multiply the numerator by 3: $3 \times 3 = 9$.
25) **Choice B is correct.** 4.MD.C.5 The corners of a picture frame are right angles (perfect square corners).

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Hi, Star Player!

◇ 3 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

⋆ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 3 tests. It's real now! ⋆

Star Player Stats

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

Star tip: on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

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

Jay Daie

Your Math Coach

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PRACTICE TODAY. SUCCEED TOMORROW!

This Grade 4 Math Practice Tests book is designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

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- Classroom Practice
- Homework & Review
- Independent Learning
- Test Preparation
- Skill Reinforcement
- Confidence Building

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Build a solid foundation through targeted practice and review.

Better Problem Solving
Develop logical thinking and effective solution strategies.

Test Confidence
Become familiar with test-style questions and formats.

Prepare for Success
Build the confidence needed to do your best on test day.

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- Place Value & Number Sense
- Addition & Subtraction
- Multiplication & Division
- Fractions & Decimals
- Measurement & Data
- Geometry & Shapes
- Perimeter & Area
- Word Problems
- Patterns & Algebraic Thinking
- And More!

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