

# 5

# New Hampshire NH SAS

Standards-Aligned Review with  
Mixed Practice and Answer Key



# 5 New Hampshire NH SAS Grade 4 Math Practice Tests

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



Five complete 30-question Grade 4 practice rounds for NH SAS, built around granite peaks, forest paths, and crisp math explanations, with answer keys and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, New Hampshire Math Explorer!

Five steady rounds on the Granite State math route

This book gives you five full Grade 4 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.

Read

Plan

Check

## 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.



## What Is Inside?

Five tests, 150 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 3–5    | Skill-building rounds with fractions, measurement, area, data, and two-step problems. |
| Tests 3–5    | 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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& answers

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1) A hiking trail is 8 kilometers long. Convert this distance to meters.

2) How many degrees less than  $90^\circ$  is  $45^\circ$ ?

3) Find  $8 \times \frac{2}{3}$  as a mixed number.

4) Noah buys 3 bottles of water, each containing 500 milliliters. How many milliliters of water does he buy in total?

A. 500 mL

B. 1,000 mL

C. 1,500 mL

D. 2,000 mL



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5) A class project uses  $\frac{7}{8}$  of a sheet of poster board. A second project uses  $\frac{3}{8}$  of a sheet. How much poster board is used for both projects?

A.  $\frac{10}{8}$   
 B.  $\frac{4}{8}$

C.  $\frac{4}{16}$   
 D.  $\frac{10}{16}$

6) This place-value chart represents a number. Write the expanded form:

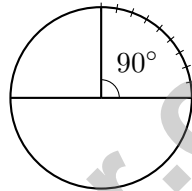
| Thousands | Hundreds | Tens | Ones |
|-----------|----------|------|------|
| 9         | 0        | 4    | 2    |

A.  $9,000 + 400 + 2$

C.  $9 + 0 + 4 + 2$

B.  $90,000 + 400 + 20$

D.  $9,000 + 40 + 2$



7)

A circle is divided into sections. The section shown contains 90 one-degree angles. What is the measure of this angle?

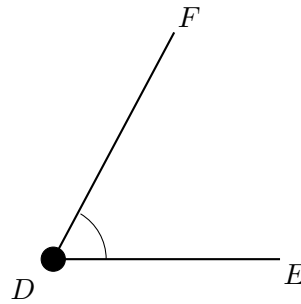
A.  $90^\circ$

C.  $180^\circ$

B.  $9^\circ$

D.  $45^\circ$





8)

Which name correctly identifies the angle with vertex at  $D$ ?

- A.  $\angle DEF$ 
 C.  $\angle EFD$   
 B.  $\angle FED$ 
 D.  $\angle EDF$

9) Look at the place-value chart. Which statement is true?

| Thousands | Hundreds | Tens | Ones |
|-----------|----------|------|------|
| 4         | 2        | 6    | 8    |

- A. The tens digit equals 8.
  C. The hundreds place has value 20.  
 B. The thousands digit is in the tens place.
  D. The hundreds place has value 200.

10) Sam's teacher cut a pie into 4 equal pieces. Sam ate 3 pieces. Which expression shows what Sam ate?

- A.  $3 \times \frac{1}{4}$ 
 C.  $3 + 4$   
 B.  $4 \times \frac{1}{3}$ 
 D.  $\frac{3}{3}$

11) What is 12,389 rounded to the nearest thousand?

- A. 10,000
  C. 13,000  
 B. 12,400
  D. 12,000



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1) What is  $7\frac{2}{3} - 4\frac{1}{3}$ ?

A.  $3\frac{1}{3}$

B.  $3\frac{2}{3}$

C.  $3\frac{3}{3}$

D.  $4\frac{1}{3}$

2) Which is another way to write  $\frac{1}{2} + \frac{1}{2} + \frac{1}{2}$ ?

A.  $\frac{3}{2}$

B.  $\frac{1}{6}$

C.  $\frac{2}{3}$

D.  $\frac{3}{6}$

3) A toy costs \$8. A game costs 4 times as much. How much does the game cost?

A. \$12

B. \$4

C. \$2

D. \$32

4) In the number 4,567, what is the value of the digit 4?

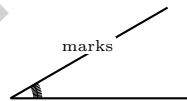
A. 4

B. 40

C. 400

D. 4,000

5)



This angle is marked from  $0^\circ$  to  $30^\circ$ . How many one-degree angles does the angle contain?

 A. 29 one-degree angles B. 30 one-degree angles C. 31 one-degree angles D. 60 one-degree angles

6) In 45,328, how many thousands are there?

7) A race is 8,800 yards long. How many miles is this?

A. 2

C. 4

B. 3

D. 5

8) Which number sentence does NOT represent a correct multiple?

A.  $2 \times \frac{1}{8} = \frac{2}{8}$

C.  $4 \times \frac{1}{6} = \frac{4}{12}$

B.  $3 \times \frac{1}{5} = \frac{3}{5}$

D.  $5 \times \frac{1}{3} = \frac{5}{3}$

9) Jada has 3 stickers. Her brother has 5 times as many stickers. How many stickers does her brother have?

A. 8

C. 18

B. 35

D. 15

10) Which of the following is true about a rhombus that is **not** a square?

A. It has 4 lines of symmetry

C. It has 1 line of symmetry

B. It has 2 lines of symmetry

D. It has no lines of symmetry

11) A rectangle has an area of 56 square centimeters. The width is 7 centimeters. What is the length?

A. 6 cm

C. 8 cm

B. 7 cm

D. 9 cm



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- 1) What is  $8\frac{3}{4} - 5\frac{1}{4}$ ?
- A.  $2\frac{2}{4}$                        C.  $3\frac{2}{4}$   
 B.  $3\frac{1}{4}$                        D.  $4\frac{1}{4}$
- 2) A student uses a protractor to measure two adjacent angles at a vertex. One angle is  $41^\circ$  and the other is  $139^\circ$ . What is the combined measure of both angles?
- A.  $98^\circ$                        C.  $180^\circ$   
 B.  $139^\circ$                        D.  $41^\circ$
- 3) A triangle has all three sides of equal length. What can you say about its angles?
- A. All angles are equal and acute                       C. One angle is greater than 90 degrees  
 B. One angle is 90 degrees                       D. The angles are different sizes
- 4) Liam collected 40 pennies. Liam collected 5 times as many pennies as his friend. How many pennies did his friend collect?
- A. 45                       C. 35  
 B. 20                       D. 8
- 5) Leo has 11 bags of marbles. Each bag has 32 marbles. How many marbles does Leo have?
- A. 242                       C. 315  
 B. 401                       D. 352



6) What is  $9,876 - 5,432$ ?

A. 4,344

C. 5,444

B. 4,434

D. 4,444

7) How many unit fractions of  $\frac{1}{7}$  make  $\frac{6}{7}$ ?

8) A kitchen has 240 ounces of rice to divide equally among 4 storage bins. How many ounces of rice go in each bin?

A. 60 ounces

C. 120 ounces

B. 80 ounces

D. 240 ounces

9) Which pair of line segments is perpendicular?

A.

B.

C.

D.



A. Diagram A

C. Diagram C

B. Diagram B

D. Diagram D

10) The letter  $H$  has how many lines of symmetry?

A. 0

C. 2

B. 1

D. 4



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& answers

## 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

- The correct answer is 8,000.** (4.MD.A.1) Since 1 kilometer = 1,000 meters, multiply:  $8 \times 1,000 = 8,000$  m.
- The correct answer is 45.** (4.G.A.1) Subtract to find how much less:  $90 - 45 = 45$ .
- The correct answer is  $5\frac{1}{3}$ .** (4.NF.B.4) We take 8 copies of  $\frac{2}{3}$ . Multiply:  $8 \times \frac{2}{3} = \frac{8 \times 2}{3} = \frac{16}{3} = 5\frac{1}{3}$ . The answer is  $5\frac{1}{3}$ .
- Choice C is correct.** (4.MD.A.2) Noah buys 3 bottles, each holding 500 mL. Multiply:  $3 \times 500 = 1,500$  mL. He buys 1,500 milliliters in total.
- Choice A is correct.** (4.NF.B.3) Two class projects use poster board. Add the amounts:  $\frac{7}{8} + \frac{3}{8} = \frac{10}{8}$  sheets of poster board used total.
- Choice D is correct.** (4.NBT.A.2) From the chart: thousands:  $9 \rightarrow 9,000$ , hundreds: 0 (omit), tens:  $4 \rightarrow 40$ , ones:  $2 \rightarrow 2$  ✓
- Choice A is correct.** (4.MD.C.5) The sector is marked with 90 one-degree angle tick marks, so its measure is  $90^\circ$ .
- Choice D is correct.** (4.MD.C.5)  $\angle EDF$  correctly names the angle because the vertex,  $D$ , is the middle letter. The middle letter always tells us the vertex.
- Choice D is correct.** (4.NBT.A.1) From the chart, the hundreds digit is 2. Its value is  $2 \times 100 = 200$ . Statement B is true. ✓
- Choice A is correct.** (4.NF.B.4) The pie is cut into 4 equal pieces. Each piece is  $\frac{1}{4}$  of the pie. Sam ate 3 pieces, so he ate  $3 \times \frac{1}{4} = \frac{3}{4}$  of the pie.
- Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest thousand. Look at the hundreds digit: 3. Since  $3 < 5$ , we round DOWN and keep the thousands digit as 2, giving us **12,000**. ✓
- Choice C is correct.** (4.NF.A.1) Diego is right that  $\frac{4}{8} = \frac{2}{4}$ —they're equivalent. But  $\frac{2}{4}$  isn't simplest form yet. Keep simplifying:  $\frac{2}{4} = \frac{1}{2}$ , which is the simplest!
- Choice B is correct.** (4.NF.B.4) Two bars stacked, each  $\frac{1}{4}$  tall:  $2 \times \frac{1}{4} = \frac{2}{4}$ .
- Choice D is correct.** (4.OA.B.4) Subtract 6 each time: 80, 74, 68, **62**. The 4th term is **62**.
- Choice B is correct.** (4.NF.C.5) Divide the numerator and denominator by 10 to simplify:  $\frac{10}{100} = \frac{1}{10}$ .
- The correct answer is B, C.** (4.NF.C.5) Option B:  $0.6 = \frac{6}{10}$  (six tenths). Option C:  $0.6 = 0.60$  (trailing zeros don't matter). The other options use wrong denominators or different values.
- Choice D is correct.** (4.NBT.B.5) Split and calculate:  $18 \times (10 + 6) = 180 + 108 = \mathbf{288}$  square units.
- Choice A is correct.** (4.NF.B.3) Add the numerators:  $6 + 7 = 13$ . We get  $\frac{13}{12}$ , which is more than a whole, so it equals  $1\frac{1}{12}$ .
- Choice B is correct.** (4.NF.B.3) Add the wholes:  $2 + 1 = 3$ . Add the fractions:  $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ . The total is  $3\frac{2}{3}$  cups.
- Choice A is correct.** (4.NF.A.1) Convert to common denominator:  $\frac{1}{4} = \frac{2}{8}$ . Since  $\frac{3}{8} > \frac{2}{8}$ , Maya ate more.
- Choice B is correct.** (4.G.A.3) A non-square rectangle is longer in one direction. Two fold lines balance it—one vertical through the middle and one horizontal through the middle. The answer is **2** lines of symmetry.
- Choice B is correct.** (4.NF.B.4) Six servings, each  $\frac{1}{3}$  pound, give us  $6 \times \frac{1}{3} = \frac{6}{3} = 2$  pounds of pasta.
- Choice D is correct.** (4.OA.A.3) Divide to share equally:  $350 \div 27 = 12$  remainder 26. So 12 complete bracelets are made, with 26 beads left over (not enough for one more bracelet, since one more needs 27).
- Choice A is correct.** (4.NBT.B.6) Long division:  $2 \div 2 = 1$ , bring down the 1 to get  $1 \div 2 = 0$  r1, bring down the 5 to get  $15 \div 2 = 7$  r1, bring down the 6 to get  $16 \div 2 = 8$ . The quotient is **1,078**.
- Choice A is correct.** (4.NBT.B.4) Since we're subtracting from 9,000, we must regroup across the zeros to subtract in each place. The answer is **4,744**.
- Choice D is correct.** (4.OA.A.1) "2 times as many" is your signal to multiply. Sam has 2 groups of Maria's 3 stickers:  $2 \times 3 = 6$ . So Sam has **6** stickers.
- Choice A is correct.** (4.NF.B.3) Noah ate a total of  $\frac{5}{8}$ . Option A splits it into  $\frac{2}{8}$  and  $\frac{3}{8}$ :  $2 + 3 = 5$  ✓.
- Choice D is correct.** (4.NF.B.3) The number line is divided into 4 equal parts. Three of those parts takes us to  $\frac{3}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ .



**Inventor's Workshop Note**

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**Hi, Math Inventor!**

◇ 5 practice tests. 5 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

**Inventor's Workshop**

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

**Inventor tip:** on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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 Inventor

# 5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

With 5 full-length practice tests, a variety of question types, and detailed answer explanations, students get the practice they need to understand math, strengthen critical thinking, and perform their best on test day and beyond.

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

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- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

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SUCCESS TOMORROW!

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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

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### Track Progress

Measure growth across multiple practice tests.



### Master Key Concepts

Reinforce important skills aligned with grade-level standards.



### Prepare for Success

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

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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5 Full-Length Practice Tests



Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included

A+