

9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

New Hampshire NH SAS

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**9 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
BUILD SKILLS & CONFIDENCE**



**ANSWER KEY
FOR ALL TESTS**



$$\frac{3}{4} + \frac{1}{4} = 1$$



$$725 - 358 = 367$$

PREPARE
PRACTICE
SUCCEED
PERFORM

**PRACTICE TODAY.
SUCCEED TOMORROW.**

9 New Hampshire NH SAS Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine 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!

Nine steady rounds on the Granite State math route

This book gives you nine 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?

Nine tests, 270 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 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	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 shape has the following attributes: four sides, four equal sides, and no right angles. Which shape could it be?

A. Trapezoid

C. Rhombus

B. Rectangle

D. Triangle

2) An aquarium has some fish. Another aquarium has 6 times as many fish as the first one. If the second aquarium has 24 fish, how many fish does the first aquarium have?

A. 18

C. 144

B. 30

D. 4

3) A restaurant uses 9 tablespoons of salt in each pot of soup. If they make 8 pots of soup and then use an additional 12 tablespoons for seasoning, how many tablespoons of salt do they use in total?

4) In 78,401, what is the value of the digit 8?



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8) A ribbon is $2\frac{3}{5}$ yards long. Which shows how to write this as an improper fraction?

A. $\frac{5}{5} + \frac{5}{5} + \frac{3}{5} = \frac{13}{5}$

C. $\frac{10}{5} + \frac{2}{5} = \frac{12}{5}$

B. $\frac{2}{5} + \frac{3}{5} = \frac{5}{5}$

D. $\frac{3}{5} + \frac{3}{5} + \frac{3}{5} = \frac{9}{5}$

9) Ava had $\frac{7}{8}$ of a chocolate bar. She gave $\frac{2}{8}$ to her friend. How much does she have left?

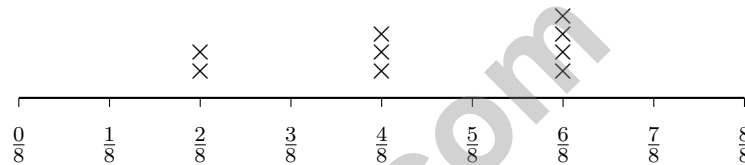
A. $\frac{5}{8}$

C. $\frac{5}{16}$

B. $\frac{9}{8}$

D. $\frac{1}{8}$

10) A line plot shows data in eighths:



If all measurements at $\frac{6}{8}$ inch are removed, how many X marks remain on the line plot?

A. 3

C. 5

B. 4

D. 6

11) What is $55,432 - 23,108$?

A. 32,324

C. 31,324

B. 32,234

D. 32,334

12) Order these from least to greatest: 0.90, 0.09, 0.99, 0.19.

A. 0.09, 0.19, 0.90, 0.99

C. 0.99, 0.90, 0.19, 0.09

B. 0.09, 0.90, 0.19, 0.99

D. 0.19, 0.09, 0.99, 0.90



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1) What is $\frac{3}{8} + \frac{2}{8}$?

A. $\frac{1}{8}$

B. $\frac{5}{8}$

C. $\frac{5}{16}$

D. $\frac{6}{8}$

2) Round 6,005 to the nearest ten.

A. 6,010

B. 6,000

C. 6,100

D. 6,005

3) Rosa bought 7 pencils. Ahmed bought 5 times as many pencils as Rosa. How many pencils did Ahmed buy?

A. 12

B. 30

C. 42

D. 35

4) What is $4\frac{5}{6} - 2\frac{1}{6}$?

A. $2\frac{2}{6}$

B. $2\frac{3}{6}$

C. $2\frac{4}{6}$

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

5) A bakery sold 12,345 cookies on Monday and 8,567 cookies on Tuesday. How many cookies did they sell in total?

A. 20,912

B. 21,012

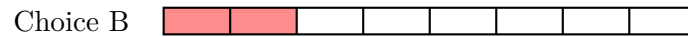
C. 20,812

D. 21,112



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6) Which fraction bar correctly shows $\frac{3}{8}$?



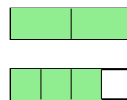
A. 3 shaded of 8

C. 3 shaded of 6

B. 2 shaded of 8

D. 5 shaded of 8

7) Which mixed number is shown?



A. $1\frac{1}{4}$

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

B. $1\frac{2}{4}$

D. $2\frac{1}{4}$

8) Sam has 4 feet of ribbon. How many inches of ribbon does he have?

A. 12

C. 36

B. 24

D. 48

9) A napkin costs $\frac{1}{2}$ dollar. If you buy 6 napkins, how much do you spend?

A. $\frac{1}{12}$ dollar

C. $\frac{6}{12}$ dollar

B. $\frac{6}{2}$ dollars (or 3 dollars)

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



- 1) Which set of unit fractions adds up to $\frac{5}{6}$?
- A. Five $\frac{1}{6}$'s C. Five $\frac{1}{12}$'s
 B. Six $\frac{1}{5}$'s D. Two $\frac{1}{6}$'s
- 2) Sofia has 3,472 stickers. What is the place value of the digit 4 in her total?
- A. 4 C. 400
 B. 40 D. 4,000
- 3) What is $4 \times \frac{3}{8}$ as a mixed number?
- A. $\frac{3}{32}$ C. $\frac{12}{8}$ or $1\frac{1}{2}$
 B. $\frac{4}{8}$ D. $\frac{12}{32}$
- 4) Ray AB starts at point:
- A. Any point between A and B C. Point A
 B. Point B D. The middle of the line
- 5) A store has 12 blue shirts in stock. This is 4 times as many as the number of red shirts. How many red shirts does the store have?



6) $\frac{3}{4}$ is equivalent to $\frac{6}{?}$. What is the missing denominator?

A. 6

C. 10

B. 12

D. 8

7) Which fraction is closest to 1 whole?

A. $\frac{4}{6}$

C. $\frac{6}{10}$

B. $\frac{5}{8}$

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

8) Which figure does **not** have a line of symmetry?

A. Equilateral triangle

C. Scalene triangle

B. Rectangle

D. Isosceles triangle

9) Hassan ate $\frac{2}{6}$ of a pizza and Iris ate $\frac{1}{3}$ of an identical pizza. Who ate more, or did they eat the same amount?

10) A farmer has 60 carrots. The farmer has 6 times as many carrots as a gardener. How many carrots does the gardener have?

A. 6

C. 54

B. 66

D. 10



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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

- Choice C is correct.** (4.G.A.2) A rhombus has four equal sides and two pairs of parallel sides but does not have right angles. These attributes match the shape described in the problem. The answer is **C**.
- Choice D is correct.** (4.OA.A.1) We know the second aquarium has 24 fish, and that's 6 times the first. To find the smaller amount, divide: $24 \div 6 = 4$ fish.
- The correct answer is 84.** (4.OA.A.3) Two steps! Step 1: salt in all the pots: $9 \times 8 = 72$ tablespoons. Step 2: add the seasoning: $72 + 12 = 84$ tablespoons in total.
- The correct answer is 8,000.** (4.NBT.A.2) The digit 8 occupies the thousands place. Its value: $8 \times 1,000 = 8,000$ ✓
- Choice D is correct.** (4.OA.B.4) Read across the table: 8, 16, 24, 32, 40, 48, 56. The next one (64) is over 60, so we stop. Count: **7** multiples of 8 up to 60.
- Choice D is correct.** (4.OA.B.4) Tiles grow by 2 each time: 2, 4, 6, 8, 10, 12, **14**. Figure 7 has **14** tiles.
- Choice B is correct.** (4.MD.C.5) Two 60° angles account for 120° . Remaining: $360^\circ - 120^\circ = 240^\circ$. Number needed: $240^\circ \div 60^\circ = 4$ more angles.
- Choice A is correct.** (4.NF.B.3) Two wholes need two $\frac{5}{5}$ pieces, then add the $\frac{3}{5}$: $\frac{5}{5} + \frac{5}{5} + \frac{3}{5} = \frac{13}{5}$ ✓.
- Choice A is correct.** (4.NF.B.3) Ava gives away $\frac{2}{8}$ from her $\frac{7}{8}$. Subtract: $7 - 2 = 5$ eighths left. Answer: $\frac{5}{8}$.
- Choice C is correct.** (4.MD.B.4) First, count all X marks: $2 + 3 + 4 = 9$. Remove the 4 marks at $\frac{6}{8}$ inch: $9 - 4 = 5$ marks remain.
- Choice A is correct.** (4.NBT.B.4) Subtract by place value: no regrouping is needed. The answer is **32,324**.
- Choice A is correct.** (4.NF.C.5) Compare the tenths place: $0 < 1 < 9$. For the two with tenths = 9, compare hundredths: $0 < 9$, so $0.90 < 0.99$.
- Choice C is correct.** (4.NF.B.3) At the bake sale, cookies were sold over two time periods. Step 1: Add morning and afternoon sales: $\frac{7}{12} + \frac{3}{12} = \frac{10}{12}$. Step 2: Find what remains unsold: $\frac{12}{12} - \frac{10}{12} = \frac{2}{12}$.
- Choice D is correct.** (4.NF.A.1) Both bars show the same shaded length. Since we're going from thirds to sixths (multiply denominator by 2), multiply the numerator by 2 also: $\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}$.
- Choice D is correct.** (4.OA.A.2) "2 times as many" is a multiplication clue. Noah's sister has 2 groups of 7 crayons: $2 \times 7 = 14$ crayons.
- Choice A is correct.** (4.MD.C.6) The ray points to the 42° mark, which is between the 30° and 60° benchmarks. Since $42^\circ < 90^\circ$, it's an acute angle. The answer is **42** degrees.
- Choice A is correct.** (4.MD.C.7) The ray rotates from one angle to a smaller one. The swept angle is: $127^\circ - 39^\circ = 88^\circ$.
- The correct answer is B, C.** (4.MD.A.1) Check each option. A: 50 cm = 0.5 m, wrong. B: 500 cm = 5 m, correct! C: 5,000 mm = 5 m, correct! D: 5,000 cm = 50 m, wrong. E: 5 m = 0.005 km, not 0.05 km. The correct answers are **B** and **C**.
- Choice B is correct.** (4.NF.B.3) Add the wholes: $1 + 3 = 4$. Add the fractions: $\frac{5}{8} + \frac{3}{8} = \frac{8}{8} = 1$. Combine: $4 + 1 = 5$.
- Choice C is correct.** (4.MD.A.3) Perimeter is the distance around the rectangle: $P = 2(5) + 2(3) = 10 + 6 = 16$ cm.
- Choice C is correct.** (4.NF.C.5) The tenths bar shows 2 tenths = $\frac{20}{100}$. The hundredths grid shows 15 hundredths. Adding: $\frac{20}{100} + \frac{15}{100} = \frac{35}{100}$.
- Choice D is correct.** (4.NF.A.1) Grid 1 shows $\frac{4}{8}$ with half shaded, Grid 2 shows $\frac{2}{4}$ with half shaded, Grid 3 shows $\frac{3}{6}$ with half shaded. All equal!
- Choice D is correct.** (4.NBT.A.1) From the chart, read the digits left to right: thousands 3, hundreds 5, tens 2, ones 6. This forms **3,526**. ✓
- Choice C is correct.** (4.G.A.3) A square balances 4 ways and a regular hexagon balances 6 ways. Since 4 and 6 are different, these shapes don't have the same number of lines of symmetry. The answer is They have different numbers of lines of symmetry.
- Choice B is correct.** (4.G.A.1) Collinear is just a fancy word meaning "on the same line." If you can draw one straight line through all the points, they're collinear!
- Choice B is correct.** (4.NF.B.4) The numerator 9 tells us exactly how many tenths we have. So $\frac{9}{10} = 9 \times \frac{1}{10}$, which means we have **9** tenths.



Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 9 tests is like 9 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

Gardener tip: keep watering your math garden long after the test. Every habit you built will grow with you for years!

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

Jay Daie

Your Math Gardener

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

With 9 full-length practice tests, students gain repeated exposure to important Grade 4 concepts while learning how to approach questions with accuracy, confidence, and strong mathematical thinking.

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

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Better Problem Solving

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- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
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- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
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- ✓ Graphs & Data Interpretation
- ✓ Mathematical Reasoning
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