

7

New Hampshire

NH SAS

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



7 Full-Length
Practice Tests



Standards-
Aligned



Build Confidence
and Skills



Mixed Question
Types

**ANSWER
KEY**

INCLUDED

$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 8 \times 7 \\ = \\ 56 \end{array}$$

7 New Hampshire NH SAS Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven 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!

Seven steady rounds on the Granite State math route

This book gives you seven 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?

Seven tests, 210 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 5–7	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 toy store received 2,016 action figures in a shipment. They need to pack them into 9 boxes equally. How many figures go in each box?
- A. 224 C. 220
 B. 228 D. 216
- 2) Is 29 prime or composite?
- A. Not possible C. Neither
 B. Composite D. Prime
- 3) Which number completes the equation? $__ \times \frac{1}{5} = \frac{3}{5}$
- A. 1 C. 3
 B. 2 D. 5
- 4) What decimal is read as “zero point nineteen”?
- A. 19 C. 1.9
 B. 0.19 D. 0.019
- 5) A container of juice contains 8 cups. Mina pours juice into 6 glasses equally. How many cups of juice are in each glass?
- A. 2 cups C. $1\frac{1}{3}$ cups
 B. $\frac{3}{4}$ cups D. 14 cups



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6) Which equation shows $\frac{11}{12}$ as a sum of two fractions?

A. $\frac{6}{12} + \frac{5}{12}$

B. $\frac{7}{12} + \frac{3}{12}$

C. $\frac{8}{12} + \frac{2}{12}$

D. $\frac{9}{12} + \frac{1}{12}$

7) Subtract: $88,765 - 44,321 = ?$

A. 44,444

B. 45,444

C. 44,234

D. 43,444

8) What is $4\frac{1}{6} + 1\frac{4}{6}$?

A. $5\frac{1}{6}$

B. $5\frac{4}{6}$

C. $5\frac{5}{6}$

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

9) A library has 8 shelves. Each shelf holds 45 books. The librarian removes 72 books to repair them. How many books are left on the shelves?

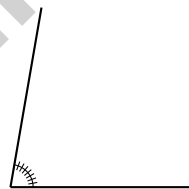
A. 360

B. 432

C. 217

D. 288

10)



Count the intervals from 0 to 80 in this angle. What is the measure?

A. 10°

B. 40°

C. 80°

D. 81°



11) Which is equal to $\frac{6}{10}$?

- A. $\frac{60}{10}$
 B. $\frac{60}{100}$

- C. $\frac{16}{100}$
 D. $\frac{6}{100}$

12) One basket holds 5 apples. Another basket holds 6 times as many apples. What is the total number of apples in both baskets?

13) What is $6 \times \frac{2}{3}$?

- A. $\frac{2}{18}$
 B. $\frac{8}{3}$

- C. 4
 D. $\frac{6}{5}$

14) Which pattern shows only odd numbers?

- A. 2, 4, 6, 8, 10
 B. 1, 3, 5, 7, 9

- C. 2, 3, 4, 5, 6
 D. 5, 10, 15, 20, 25

15) Line segment PQ and line segment QP are:

- A. Different segments
 B. The same segment

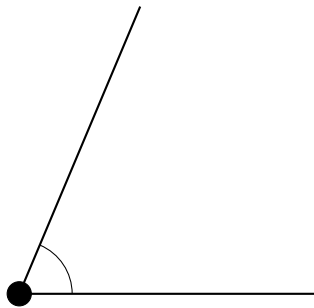
- C. Perpendicular
 D. Parallel

16) The population of a town is 42,567. Round this number to the nearest thousand.



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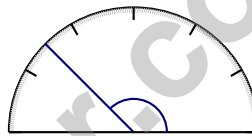
1)



This angle is smaller than a right angle. What type of angle is it?

- A. Acute C. Right
 B. Obtuse D. A straight angle

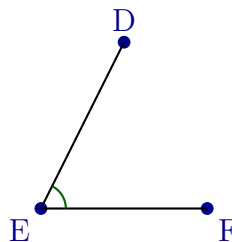
2)



What is the measure of the angle shown?

- A. 90 degrees C. 135 degrees
 B. 120 degrees D. 150 degrees

3) Look at the diagram with points D , E , and F :

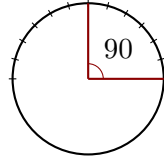


Using three letters, which is another correct name for this angle?

- A. Angle FED C. Angle EFD
 B. Angle DFE D. Angle E



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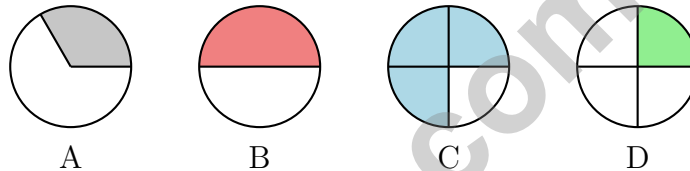


4)

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

- A. 45 one-degree angles C. 180 one-degree angles
 B. 90 one-degree angles D. 360 one-degree angles

5) Which circle shows a fraction equal to $\frac{1}{2}$?

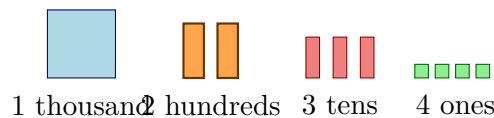


- A. Circle A C. Circle C
 B. Circle B D. Circle D

6) A bathtub contains 120 fluid ounces of water. How many cups is this?

- A. 15 C. 60
 B. 30 D. 240

7) Keisha used base-ten blocks to show the number 1,234. How many more tens blocks than hundreds blocks did she use?



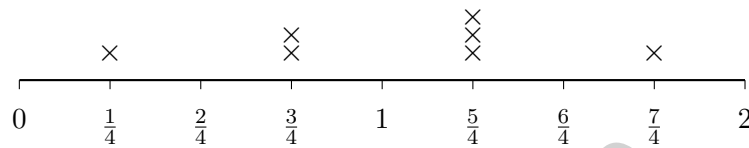
- A. 2 C. 3
 B. 5 D. 1

1) If you have 8 copies of $\frac{1}{12}$, what fraction do you have?

- A. $\frac{8}{12}$
 B. $\frac{1}{96}$

- C. $\frac{12}{8}$
 D. $\frac{1}{8}$

2) Here is a line plot with fourths:



Which value has exactly 2 more X marks than $\frac{1}{4}$?

- A. $\frac{2}{4}$
 B. $\frac{5}{4}$

- C. $\frac{7}{4}$
 D. 2

3) A pattern rule is “multiply by 3 then subtract 2.” If the input is 5, what is the output?

- A. 10
 B. 17

- C. 15
 D. 13

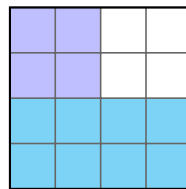
4) Sam ate $\frac{2}{6}$ of a pizza and Ming ate $\frac{3}{6}$ of the same pizza. How much of the pizza did they eat together?

- A. $\frac{5}{6}$
 B. $\frac{5}{12}$

- C. $\frac{1}{6}$
 D. $\frac{6}{6}$



- 5) Sophia runs laps on a track. Each lap is $\frac{1}{4}$ mile. If she completes 5 laps, how many miles does she run?
- A. $\frac{5}{4}$ miles (or $1\frac{1}{4}$ miles) C. $\frac{5}{20}$ mile
 B. $\frac{1}{20}$ mile D. 5 miles
- 6) What is $7 \times \frac{1}{5}$ as a mixed number?
- A. $\frac{1}{35}$ C. $2\frac{2}{5}$
 B. $\frac{7}{1}$ D. $\frac{7}{5}$ or $1\frac{2}{5}$
- 7) Emma has 6 books. Her sister has 3 times as many. How many books does her sister have?
- A. 9 C. 6
 B. 3 D. 18
- 8) Ava has $\frac{2}{10}$ of a pizza. What fraction with denominator 100 is this equal to?
- A. $\frac{2}{100}$ C. $\frac{20}{100}$
 B. $\frac{12}{100}$ D. $\frac{22}{100}$
- 9) A 4×4 grid has 16 equal squares. The shaded part is decomposed into two regions:



Which shows the decomposition?

- A. $\frac{4}{16} + \frac{8}{16}$ C. $\frac{12}{16} + \frac{4}{16}$
 B. $\frac{6}{16} + \frac{10}{16}$ D. $\frac{8}{16} + \frac{8}{16}$



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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

- Choice A is correct.** (4.NBT.B.6) Divide: $20 \div 9 = 2$ r2, bring down the 1 to get $21 \div 9 = 2$ r3, bring down the 6 to get $36 \div 9 = 4$. Each box holds **224** action figures.
- Choice D is correct.** (4.OA.B.4) Test the small primes: 29 is odd (not $\div 2$); $2 + 9 = 11$ (not $\div 3$); doesn't end in 0 or 5 (not $\div 5$); $7 \times 4 = 28$, $7 \times 5 = 35$, no 7. So 29 has only factors 1 and 29—**prime**.
- Choice C is correct.** (4.NF.B.4) To find the missing number, think: How many copies of $\frac{1}{5}$ do we need to make $\frac{3}{5}$? We need 3 copies. So the equation is $3 \times \frac{1}{5} = \frac{3}{5}$.
- Choice B is correct.** (4.NF.C.5) When you say “zero point nineteen” out loud, you’re reading the decimal 0.19.
- Choice C is correct.** (4.MD.A.2) There are 8 cups of juice for 6 glasses. Divide: $8 \div 6 = 1\frac{1}{3}$ cups. Each glass gets **$1\frac{1}{3}$** cups.
- Choice A is correct.** (4.NF.B.3) To check a decomposition, add the numerators and keep the same denominator. $\frac{6}{12} + \frac{5}{12} = \frac{6+5}{12} = \frac{11}{12}$ ✓. *Note:* this is one of several valid ways to decompose $\frac{11}{12}$ —you could also use $\frac{4}{12} + \frac{7}{12}$ or $\frac{1}{12} + \frac{10}{12}$, etc.
- Choice A is correct.** (4.NBT.B.4) Subtract by place value: no regrouping needed. The answer is **44,444**.
- Choice C is correct.** (4.NF.B.3) Add the wholes: $4 + 1 = 5$. Add the fractions: $\frac{1}{6} + \frac{4}{6} = \frac{5}{6}$. The sum is **$5\frac{5}{6}$** .
- Choice D is correct.** (4.OA.A.3) Two steps! Step 1: find the total books on the shelves. 8 shelves \times 45 books = 360 books. Step 2: take out the books being repaired. $360 - 72 = 288$ books left on the shelves.
- Choice C is correct.** (4.MD.C.5) Counting the intervals from 0 to 80 gives us **80°** .
- Choice B is correct.** (4.NF.C.5) To convert $\frac{6}{10}$, multiply numerator and denominator by 10: $\frac{6}{10} = \frac{6 \times 10}{10 \times 10} = \frac{60}{100}$.
- The correct answer is 35.** (4.OA.A.1) Two steps. Step 1: the second basket has $5 \times 6 = 30$ apples. Step 2: add the first basket for the total: $5 + 30 = 35$ apples.
- Choice C is correct.** (4.NF.B.4) We take 6 copies of $\frac{2}{3}$. Multiply: $6 \times \frac{2}{3} = \frac{6 \times 2}{3} = \frac{12}{3} = 4$. The answer is **4**.
- Choice B is correct.** (4.OA.B.4) Odd numbers end in 1, 3, 5, 7, or 9. Choice B has 1, 3, 5, 7, 9—all odd. Choices A, C, D each contain at least one even number.
- Choice B is correct.** (4.G.A.1) Whether you call it segment PQ or segment QP , you’re describing the exact same straight path between the two points. The order doesn’t matter.
- The correct answer is 43,000.** (4.NBT.A.3) We’re rounding to the nearest thousand. Look at the hundreds digit: 5. Since $5 \geq 5$, round UP! The thousands digit changes to 3, giving us **43,000** people. ✓
- Choice B is correct.** (4.MD.C.5) A quarter turn is $\frac{1}{4}$ of the full circle: $\frac{1}{4} \times 360^\circ = 90^\circ$.
- The correct answer is A, D.** (4.NBT.A.1) A is true: 5 is in the hundreds place. D is true: 4 is in the tens place ($4 \times 10 = 40$). B, C, E are false. Answer: A and D. ✓
- Choice B is correct.** (4.NF.B.3) Kai has $\frac{5}{8}$ shown in the pink bar. She gives away $\frac{2}{8}$. Subtract: $5 - 2 = 3$ eighths remain. Answer: **$\frac{3}{8}$** .
- Choice B is correct.** (4.G.A.2) Both rhombuses and squares have four equal sides and two pairs of parallel sides. However, a rhombus does not require right angles, while a square must have them. This is the key difference. The answer is **B**.
- Choice B is correct.** (4.MD.A.1) Since 1 liter = 1,000 milliliters, multiply: $5,000 \times 1,000 = 5,000,000$ mL. The answer is **5,000,000** mL.
- Choice D is correct.** (4.NF.A.1) To find an equivalent fraction, multiply both the numerator and denominator by the same number. Here, multiply by 2: $\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}$. Both pieces are twice as many, but they’re the same size!
- The correct answer is 0.70.** (4.NF.C.5) A trailing zero doesn’t change the value. Both 0.7 and 0.70 equal the same amount.
- Choice A is correct.** (4.NBT.B.5) Split 22: $19 \times (20 + 2) = 380 + 38 = 418$.
- Choice A is correct.** (4.NF.B.4) Four fifths: $4 \times \frac{1}{5} = \frac{4}{5}$.
- Choice C is correct.** (4.NF.A.1) To compare, find a common denominator: $\frac{2}{3} = \frac{4}{6}$ and $\frac{1}{2} = \frac{3}{6}$. Since $4 > 3$, we have $\frac{2}{3} > \frac{1}{2}$.



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Hi, Math Pilot!

◇ 7 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

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

Jay Daie

Your Math Pilot

7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

With 7 full-length practice tests, a wide range of question types, and detailed answer explanations, students will improve accuracy, strengthen problem-solving abilities, and prepare for classroom success and beyond.



PERFECT FOR:

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

★ CONFIDENCE IN MATH.
SUCCESS FOR LIFE.

WHAT STUDENTS WILL GAIN



Stronger Math Skills

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.



Track Progress

Measure growth across multiple practice tests.



Academic Success

Strengthen skills needed for future learning.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ And More!



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7 Full-Length Practice Tests



Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included