

4

New Hampshire

NH SAS

GRADE 4

MATH

PRACTICE TESTS



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-ALIGNED
REVIEW



MIXED PRACTICE
QUESTIONS



ANSWER KEY
INCLUDED

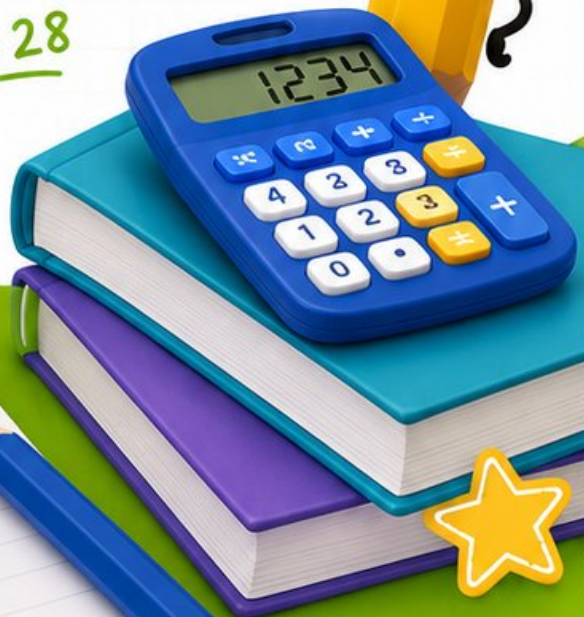
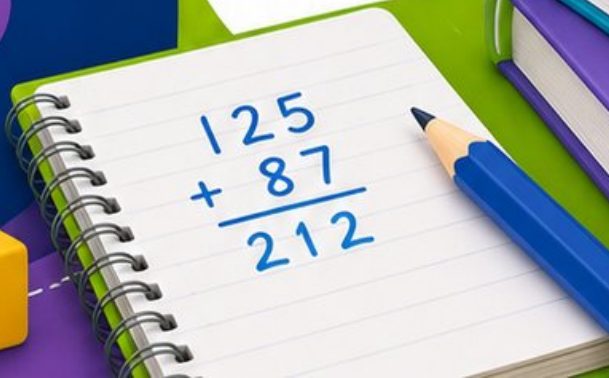


Standards-Aligned Review with
Mixed Practice and Answer Key



$$4 \times 7 = 28$$

$$36 \div 9 = 4$$



4 New Hampshire NH SAS Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, New Hampshire Math Explorer!

Four steady rounds on the Granite State math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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.



Scan me!
For more practice
& answers

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1) A party favor bag holds $\frac{1}{6}$ pound of candy. If you prepare 8 bags, how much candy is used in total?

A. $\frac{1}{48}$ pound

C. $\frac{8}{48}$ pound

B. $\frac{8}{6}$ pounds (or $1\frac{1}{3}$ pounds)

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

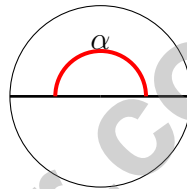
2) What is $\frac{2}{5} + \frac{3}{5}$?

A. $\frac{5}{10}$

C. $\frac{5}{5}$ or 1

B. $\frac{1}{5}$

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



3)

The angle α shown above represents what fraction of a full turn?

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

C. $\frac{1}{2}$

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

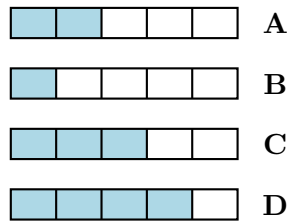
D. $\frac{2}{3}$

4) Convert $\frac{5}{10}$ to a fraction with denominator 100.



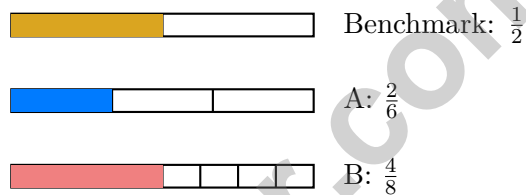
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5) Which picture shows $\frac{2}{5}$ as two unit fractions of $\frac{1}{5}$?



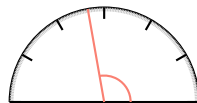
- A. Picture A C. Picture C
 B. Picture B D. Picture D

6) Which fraction is equivalent to $\frac{1}{2}$?



- A. $\frac{2}{6}$ is equivalent to $\frac{1}{2}$ C. Both fractions are equivalent to $\frac{1}{2}$
 B. $\frac{4}{8}$ is equivalent to $\frac{1}{2}$ D. Neither fraction is equivalent to $\frac{1}{2}$

7)

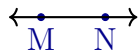


Ming measures an angle and the measurement is just past 90 degrees. Which classification is correct?

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

1) Which diagram shows line segment MN ?

A.



B.



C.



D.

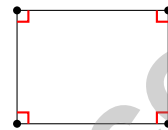

 A. Diagram A

 C. Diagram C

 B. Diagram B

 D. Diagram D

2) Look at this shape with right angle markers. How many right angles does it have?



Right angle
markers

 A. One right angle

 C. Three right angles

 B. Two right angles

 D. Four right angles

3) Three runners completed different distances. Ellie ran $\frac{5}{8}$ of a mile, Fiona ran $\frac{3}{5}$ of a mile, and Gina ran $\frac{7}{10}$ of a mile. Who ran the farthest?

 A. Ellie

 C. Gina

 B. Fiona

 D. Ellie and Fiona ran the same

4) What is 72,501 rounded to the nearest thousand?

 A. 72,000

 C. 72,500

 B. 70,000

 D. 73,000

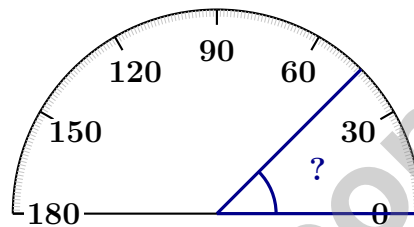

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5) What is $4,125 \div 5$?

- A. 805 C. 825
 B. 815 D. 835

6) A roll of tape has $\frac{1}{8}$ meter of tape. How much tape is on 6 rolls?

- A. $\frac{1}{48}$ meter C. $\frac{6}{48}$ meter
 B. $\frac{6}{8}$ meters (or $\frac{3}{4}$ meters) D. 6 meters



7)

What is the measure of the angle shown in blue?

- A. 45 degrees C. 60 degrees
 B. 30 degrees D. 90 degrees

8) A bookstore receives 7 shipments of books. Each shipment has 256 books. How many books are received?

- A. 1792 C. 1589
 B. 1648 D. 1856

9) A slanted parallelogram that is not a rectangle or a rhombus has how many lines of symmetry?

- A. 0 C. 2
 B. 1 D. 4



1) How many 90° angles can fit around a point without overlapping?

- A. 2 C. 4
 B. 3 D. 5

2) Which number is a multiple of 7?

- A. 45 C. 52
 B. 60 D. 49

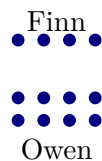
3) Ava wants to convert 5 kilometers to meters. What is the correct answer?

- A. 500 C. 50,000
 B. 5,000 D. 500,000

4) A line plot shows pebble sizes in eighths of an inch. There are 2 pebbles at $\frac{2}{8}$ inch, 4 pebbles at $\frac{3}{8}$ inch, and 1 pebble at $\frac{5}{8}$ inch. How many pebbles are there in total?

- A. 5 C. 7
 B. 6 D. 8

5)



Finn has 4 toy trucks. Owen has 2 times as many toy trucks as Finn. How many toy trucks does Owen have?

- A. 6 C. 12
 B. 16 D. 8



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6) What is $\frac{5}{10} + \frac{25}{100}$?

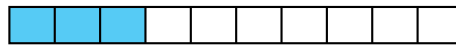
A. $\frac{30}{100}$

B. $\frac{75}{100}$

C. $\frac{5}{25}$

D. $\frac{30}{110}$

7) A water jug is $\frac{8}{10}$ full. After pouring a drink, it is $\frac{3}{10}$ full. How much water was poured out?



Remaining: $\frac{3}{10}$ full
Started with $\frac{8}{10}$; poured out ?

A. $\frac{5}{20}$ of the jug

B. $\frac{5}{10}$ of the jug

C. $\frac{11}{10}$ of the jug

D. $\frac{2}{10}$ of the jug

8) Sam has a ribbon $\frac{6}{8}$ yard long. He cuts it into two equal pieces. Each piece is:

A. $\frac{2}{8}$ yard

B. $\frac{3}{8}$ yard

C. $\frac{4}{8}$ yard

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

9) Ava read 4,623 pages in a book series. Round to the nearest hundred to estimate pages read.

A. 4,600

B. 4,620

C. 4,700

D. 5,000

10) Which of these letters does **not** have a line of symmetry?

A. *M*

B. *O*

C. *T*

D. *Z*



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 B is correct.** (4.NF.B.4) Eight party favor bags, each with $\frac{1}{6}$ pound of candy, use $8 \times \frac{1}{6} = \frac{8}{6} = \frac{4}{3}$, which is $1\frac{1}{3}$ pounds.
- Choice C is correct.** (4.NF.B.3) Add the numerators: $2 + 3 = 5$. The result is $\frac{5}{5}$, which is exactly 1 whole.
- Choice C is correct.** (4.MD.C.5) The shaded arc stretches across a straight line (from one side of the circle to the other), which is $\frac{1}{2}$ of a full turn or 180° .
- The correct answer is $\frac{50}{100}$.** (4.NF.C.5) Think about place value: 1 tenth = 10 hundredths (because each tenth strip splits into 10 hundredth squares). So 5 tenths = $5 \times 10 = 50$ hundredths. Written as fractions: $\frac{5}{10} = \frac{5 \times 10}{10 \times 10} = \frac{50}{100}$. ✓
- Choice A is correct.** (4.NF.B.4) Count the shaded parts: there are 2 shaded parts. Count the equal parts: there are 5 total parts. So the fraction bar shows 2 copies of $\frac{1}{5}$, which is $\frac{2}{5}$.
- Choice B is correct.** (4.NF.A.1) Compare the shading to the benchmark. Option B shades the same amount as the benchmark ($\frac{1}{2}$): $\frac{4}{8} = \frac{1}{2}$. Option A ($\frac{2}{6}$) shades much less.
- Choice A is correct.** (4.MD.C.6) Ming's angle at 100° is just past a right angle (which is 90°). Any angle bigger than 90° but smaller than 180° is obtuse, so this is definitely obtuse. The answer is obtuse angle.
- Choice D is correct.** (4.OA.B.4) Multiply each input by 2: $6 \times 2 = 12$, $8 \times 2 = 16$, so $9 \times 2 = 18$.
- Choice D is correct.** (4.NBT.B.5) Split both: $17 = 10 + 7$ and $19 = 10 + 9$. The four partial products are: $10 \times 10 = 100$, $10 \times 9 = 90$, $7 \times 10 = 70$, $7 \times 9 = 63$.
- Choice B is correct.** (4.MD.C.5) The angle goes slightly beyond the 8° tick mark, so approximately 9 one-degree angles is the best estimate.
- The correct answer is $\frac{1}{4}$.** (4.NF.A.1) Divide both numerator and denominator by their common factor 2: $\frac{2}{8} = \frac{1}{4}$.
- Choice A is correct.** (4.NF.B.3) The circle picture shows a pie cut into 4 equal slices. Step 1: Two slices are shown: $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$. Step 2: The remaining slices: $\frac{4}{4} - \frac{2}{4} = \frac{2}{4}$.
- Choice B is correct.** (4.MD.A.1) Convert 3 liters to mL: $3 \times 1,000 = 3,000$ mL. Since $2,500 \text{ mL} < 3,000 \text{ mL}$, the answer is 2,500 milliliters is smaller.
- Choice B is correct.** (4.NBT.B.4) In option B, $6,007 - 3,256$, the tens place is zero but we must subtract 5. This requires regrouping across the zero.
- Choice C is correct.** (4.NF.B.3) Start at 0 and make three jumps of $\frac{1}{4}$ each. After three jumps: $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$.
- Choice B is correct.** (4.NF.C.5) The tenths place is the same (5 tenths). Compare the hundredths: $0 < 1$, so $0.50 < 0.51$.
- The correct answer is A, B.** (4.MD.C.5) An angle is made of a vertex (the meeting point) and two rays (the sides). A circle, arc, and line are not essential parts of an angle.
- Choice C is correct.** (4.NF.C.5) The picture shows a hundredths grid with just one square left blank. That means 99 out of 100 are shaded: $\frac{99}{100} = 0.99$.
- Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest hundred. Look at the tens digit: 3. Since $3 < 5$, we round DOWN. The hundreds digit stays at 8, giving us **52,800**. ✓
- Choice A is correct.** (4.NF.B.4) On the number line, we make 3 jumps of $\frac{1}{5}$ each. Starting at 0: hop to $\frac{1}{5}$, then $\frac{2}{5}$, then $\frac{3}{5}$. This shows $3 \times \frac{1}{5} = \frac{3}{5}$. The answer is $\frac{3}{5}$.
- Choice A is correct.** (4.MD.C.7) The angle is split into two parts. Subtract to find the missing one: $165^\circ - 92^\circ = 73^\circ$.
- Choice D is correct.** (4.NBT.B.6) Use long division: $3 \div 5 = 0 \text{ r}3$, bring down the 6 to get $36 \div 5 = 7 \text{ r}1$, bring down the 4 to get $14 \div 5 = 2 \text{ r}4$, bring down the 5 to get $45 \div 5 = 9$. The answer is **729**.
- Choice D is correct.** (4.G.A.1) A straight angle is perfectly flat at 180° — like a line with two rays pointing opposite ways. Diagram D shows this flat, perfectly straight configuration.
- Choice D is correct.** (4.OA.A.2) The school lot's 56 spots are 7 times the mall lot's spots. To find the smaller amount, divide: $56 \div 7 = 8$ parking spots.
- Choice C is correct.** (4.NF.B.4) Five eighths: $5 \times \frac{1}{8} = \frac{5}{8}$.



Author's Note

From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 4 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

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

Jay Daie

Your Math Friend

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 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.

PERFECT FOR:

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

★ **CONFIDENCE TODAY.
SUCCESS TOMORROW!**

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.



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 & Decimals
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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