

$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$

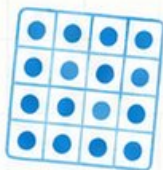
# 10

$$7 \times 8 = 56$$



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

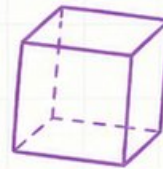
## New Hampshire



# NH SAS



# GRADE 4



# MATH

## PRACTICE TESTS



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



# 10 New Hampshire NH SAS Grade 4 Math Practice Tests

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



Ten 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!

Ten steady rounds on the Granite State math route

This book gives you ten 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?

Ten tests, 300 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.
Test 10	Final round to show growth across the whole New Hampshire book.
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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For more practice  
& answers

# Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	27
★ Practice Test 3	_____	39
★ Practice Test 4	_____	51
★ Practice Test 5	_____	62
★ Practice Test 6	_____	75
★ Practice Test 7	_____	86
★ Practice Test 8	_____	98
★ Practice Test 9	_____	109
★ Practice Test 10	_____	121
<b>Practice Test Answer Keys</b>	_____	<b>131</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>137</b>

1) Two angles are measured: one is 55 degrees and one is 165 degrees. Which statement is true?

- A. Both angles are acute  
 B. Both angles are obtuse  
 C. One is acute and one is obtuse  
 D. Both angles are right angles

2) Looking at this pattern, what is the rule?

8, 16, 24, 32, 40, ...

- A. Subtract 8  
 B. Add 6  
 C. Multiply by 2  
 D. Add 8

3) Estimate the quotient of  $4,156 \div 4$  using compatible numbers.

- A. About 1,000  
 B. About 800  
 C. About 1,100  
 D. About 1,200

4) Round 26,734 to the nearest hundred.

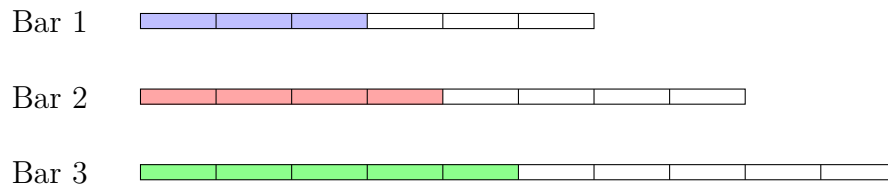
5) A pie is cut into slices. One slice represents an angle of  $40^\circ$  and another slice represents an angle of  $60^\circ$ . If these two slices are placed together, what angle do they form?

- A.  $20^\circ$   
 B.  $60^\circ$   
 C.  $100^\circ$   
 D.  $200^\circ$



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6) Look at the three fraction bars. Which shows the greatest fraction?



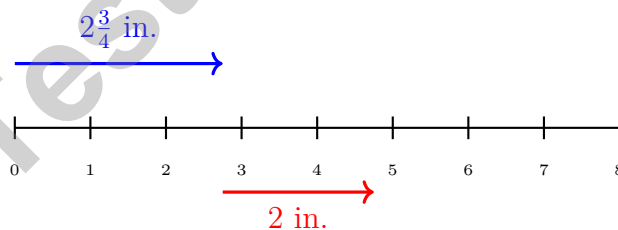
- A. Bar 1:  $\frac{3}{6}$                        C. Bar 3:  $\frac{5}{10}$   
 B. Bar 2:  $\frac{4}{8}$                        D. All are equal

7) In the number 3,334, the digit 3 appears in three places. What is the sum of the values of all three 3's?

- A. 333                               C. 3,330  
 B. 3,300                           D. 3,333

8) Leo has \$50. He buys a shirt for \$12 and pants for \$28. How much money does he have left?

- A. \$10                               C. \$22  
 B. \$16                               D. \$40

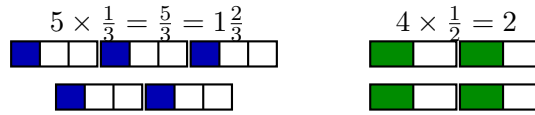


9)

A board has two sections. The blue section is  $2\frac{3}{4}$  inches and the red section is 2 inches. What is the total length?

- A.  $4\frac{1}{4}$  inches                       C.  $4\frac{3}{4}$  inches  
 B.  $4\frac{2}{4}$  inches                       D. 5 inches

10) Compare: Which is larger,  $5 \times \frac{1}{3}$  or  $4 \times \frac{1}{2}$ ?



- A.  $5 \times \frac{1}{3}$  is larger  
 B.  $4 \times \frac{1}{2}$  is larger  
 C. They are equal  
 D. Cannot be determined
- 11) A single marble weighs  $\frac{2}{6}$  ounce. What is the weight of 3 marbles?
- A.  $\frac{2}{18}$  ounce  
 B.  $\frac{6}{6}$  ounce (or 1 ounce)  
 C.  $\frac{3}{6}$  ounce (or  $\frac{1}{2}$  ounce)  
 D.  $\frac{5}{6}$  ounce
- 12) Maya drew a number line with hops of  $\frac{1}{2}$ . How many hops to go from 0 to  $\frac{3}{2}$ ?



- A. 1 hop  
 B. 2 hops  
 C. 3 hops  
 D. 4 hops
- 13) Which geometric figure has exactly one endpoint?
- A. A line  
 B. A line segment  
 C. A ray  
 D. A point
- 14) Which number is divisible by 5?
- A. 33  
 B. 42  
 C. 55  
 D. 67



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1) Write  $\frac{6}{4}$  as a mixed number.

2) Noah bought a chocolate bar divided into 10 equal pieces. He ate 7 pieces. Which shows how much he ate as a sum of unit fractions?

A.  $\frac{7}{10}$

B.  $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$

C.  $\frac{1}{7} + \frac{1}{7} + \frac{1}{7}$

D.  $\frac{7}{7}$

3) A digit 2 in the thousands place has how many times the value of a digit 2 in the tens place?

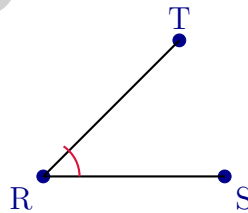
A. 10

B. 50

C. 100

D. 1,000

4) Look at this diagram:



Using three points, how would you name the angle shown by the red arc?

A. Angle  $S$

B. Angle  $TRS$

C. Angle  $ST$

D. Angle  $R$



5) Add:  $41,234 + 38,765 = ?$

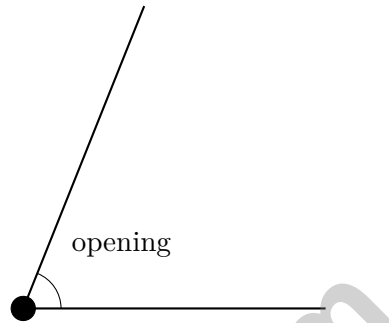
A. 79,999

C. 79,989

B. 80,099

D. 80,199

6)



The diagram shows an angle with a small opening. Which type of angle is this?

A. A right angle

C. An obtuse angle

B. An acute angle

D. A straight angle

7) A factory starts with 200 toy cars. They sell 50 cars. Then they pack the remaining cars into boxes of 6. How many complete boxes can they fill?

A. 24

C. 26

B. 33

D. 25

8) Which shape has perpendicular sides and all angles of 90 degrees?

A. Acute triangle

C. Rectangle

B. Obtuse triangle

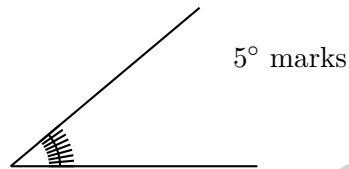
D. Trapezoid



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1) The corner of a book page is a right angle. An angle that is slightly smaller than the corner of a book is most likely:

- A. acute                       C. obtuse  
 B. right                         D. straight



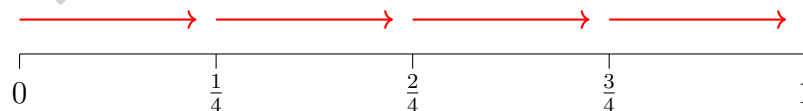
2)

This angle is marked from  $0^\circ$  to  $40^\circ$ . What is the measure?

- A.  $40^\circ$                        C.  $41^\circ$   
 B.  $39^\circ$                        D. 8 one-degree angles

3) A ribbon is  $4\frac{3}{6}$  feet long. If  $2\frac{2}{6}$  feet are cut off, how long is the remaining ribbon?

4) A number line shows equal jumps. Use it to find how many  $\frac{1}{4}$  are in  $\frac{4}{4}$ .



- A. 1                               C. 3  
 B. 2                               D. 4



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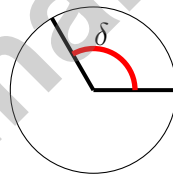
5) The long division diagram shows  $2,688 \div 3$ . What is the quotient?

$$\begin{array}{r}
 \text{quotient} \\
 896 \\
 3 \overline{) 2688} \\
 \underline{-24} \phantom{00} \\
 28 \phantom{00} \\
 \underline{-27} \phantom{00} \\
 18 \phantom{00} \\
 \underline{-18} \phantom{00} \\
 0
 \end{array}$$

- A. 876                       C. 906  
 B. 886                       D. 896

6) Which statement matches  $32 = 8 \times 4$ ?

- A. 32 is 4 less than 8                       C. 32 is 8 more than 4  
 B. 32 is 4 more than 8                       D. 32 is 8 times as many as 4



7)

What is the measure of angle  $\delta$  in the diagram?

- A.  $90^\circ$                        C.  $150^\circ$   
 B.  $120^\circ$                        D.  $180^\circ$

## 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.MD.C.6) At  $55^\circ$ , the first angle is less than  $90^\circ$ , so it's acute. At  $165^\circ$ , the second angle is between  $90^\circ$  and  $180^\circ$ , so it's obtuse. We have one of each type. The answer is one acute and one obtuse.
- Choice D is correct.** (4.OA.B.4) Find the difference:  $16 - 8 = 8$ ,  $24 - 16 = 8$ ,  $32 - 24 = 8$ . Each term increases by 8. ✓
- Choice A is correct.** (4.NBT.B.6) We round 4,156 to the compatible number 4,000 (a number that divides nicely by 4). Since  $4,000 \div 4 = 1,000$ , the quotient is about **1,000**. Why "compatible"? It makes mental math easy.
- The correct answer is 26,700.** (4.NBT.A.3) We're rounding to the nearest hundred. Look at the tens digit: 3. Since  $3 < 5$ , round DOWN. The answer is **26,700**. ✓
- Choice C is correct.** (4.MD.C.7) When pie slices are combined, their angles add up:  $40^\circ + 60^\circ = 100^\circ$ .
- Choice D is correct.** (4.NF.A.1) All three fractions reduce to  $\frac{1}{2}$ : Bar 1 has  $\frac{3}{6} = \frac{1}{2}$ , Bar 2 has  $\frac{4}{8} = \frac{1}{2}$ , Bar 3 has  $\frac{5}{10} = \frac{1}{2}$ . Equal size, equal shading!
- Choice C is correct.** (4.NBT.A.1) Step 1: Find each 3's place—thousands, hundreds, and tens. Step 2: Calculate values:  $3,000 + 300 + 30 = 3,330$ . ✓
- Choice A is correct.** (4.MD.A.2) Step 1: Find total spent:  $12 + 28 = 40$  dollars. Step 2: Subtract from \$50:  $50 - 40 = 10$  dollars. Leo has **\$10** left.
- Choice C is correct.** (4.NF.B.3) Add the wholes:  $2 + 2 = 4$ . Add the fractions:  $\frac{3}{4} + 0 = \frac{3}{4}$ . The total length is  **$4\frac{3}{4}$**  inches.
- Choice B is correct.** (4.NF.B.4) Let's calculate both:  $5 \times \frac{1}{3} = \frac{5}{3} = 1\frac{2}{3}$  and  $4 \times \frac{1}{2} = \frac{4}{2} = 2 = \frac{6}{3}$ . Since  $\frac{6}{3} > \frac{5}{3}$ ,  $4 \times \frac{1}{2}$  is larger. The answer is  $4 \times \frac{1}{2}$  is larger.
- Choice B is correct.** (4.NF.B.4) Three marbles, each weighing  $\frac{2}{6}$  ounce, give us  $3 \times \frac{2}{6} = \frac{6}{6} = 1$  ounce.
- Choice C is correct.** (4.NF.B.4) Maya hops by halves:  $\frac{1}{2}, \frac{2}{2}, \frac{3}{2}$ . After 3 hops, she reaches  $\frac{3}{2}$ .
- Choice C is correct.** (4.G.A.1) A ray is like a beam of light from a flashlight — it starts at one point and shines forever in one direction only. A line keeps going both ways, a segment stops at both ends, and a point is just one spot with no size at all.
- Choice C is correct.** (4.OA.B.4) Divisibility rule for 5: the last digit must be 0 or 5. 55 ends in 5—perfect! So  $55 \div 5 = 11$ . The others end in 3, 2, or 7, so 5 doesn't divide them evenly.
- Choice D is correct.** (4.NBT.A.2) The tens place (second from right) has the digit 2. Value:  $2 \times 10 = 20$  ✓
- The correct answer is A, C.** (4.NF.B.4) A means "6 copies of  $\frac{1}{8}$ ", which is  $\frac{6}{8}$ . C also means "6 copies of  $\frac{1}{8}$ ", just written in words. Both are correct. B and D would give  $\frac{8}{8}$  (too many). E is subtraction.
- The correct answer is  $\frac{42}{100}$ .** (4.NF.C.5) The decimal 0.42 means 42 hundredths, so the fraction is  $\frac{42}{100}$ .
- Choice B is correct.** (4.MD.C.5) Divide the degrees by 360:  $\frac{120}{360} = \frac{1}{3}$  (simplifying by 120). Answer:  $\frac{1}{3}$ .
- Choice B is correct.** (4.NF.C.5) Both pictures display the same amount: 3 tenths or 30 hundredths. So  $\frac{3}{10} = \frac{30}{100} = 0.30 = 0.3$ .
- Choice A is correct.** (4.NF.B.3) The cake recipe uses sugar and flour as shown in the picture. Add them with like denominators:  $\frac{4}{6} + \frac{2}{6} = \frac{6}{6}$  cups total.
- Choice D is correct.** (4.OA.A.3) Two steps! Step 1: combine the stickers:  $27 + 18 = 45$ . Step 2: split into 3 equal groups:  $45 \div 3 = 15$  stickers per group.
- Choice A is correct.** (4.NF.B.3) The pie is divided into 6 equal slices, and 3 are shaded. So  $\frac{3}{6}$  is shaded, which as unit fractions is  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6}$ .
- Choice C is correct.** (4.MD.A.3) From  $88 = \ell \times 8$ : Divide to get  $\ell = 88 \div 8 = 11$  m.
- Choice C is correct.** (4.G.A.2) A parallelogram is defined by having two pairs of opposite sides that are equal and parallel. A figure is a rectangle only when it also has four right angles at each corner. The answer is C.
- Choice D is correct.** (4.NBT.B.5) Break 18 into tens and ones:  $4 \times (10 + 8) = 40 + 32 = 72$  crayons.
- The correct answer is 65.** (4.MD.C.5) An angle turning through 65 one-degree angles has a measure of  $65^\circ$ .



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& answers

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Lab Notes for a Young Scientist

## Hi, Curious Scientist!

◇ 10 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

### Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

**Scientist tip:** on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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 Scientist

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