

+ =

10 New Hampshire NH SAS



GRADE 3

MATH

PRACTICE TESTS

- ✓ Complete Standards Review
- ✓ Skill Practice
- ✓ Word Problems and Answer Key

$2 \times 7 + 4$



★ ★ ★
PREPARE
PRACTICE
SUCCEED!
★ ★ ★



Aligned to
Grade 3 Math
Standards



Build Confidence
and Master
Math Skills



Test-Taking
Practice for
Success



Answer Key
for Easy
Review

10 New Hampshire NH SAS Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 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 3 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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1) Ben divides 35 trading cards equally among 5 friends. How many cards does each friend get?

A. 30

C. 6

B. 8

D. 7

2) A shape has 4 sides and 4 right angles. Which of these could it be?

A. Square or rectangle

C. Triangle or square

B. Rhombus or trapezoid

D. Parallelogram only

3) Find $5 \times (7 + 4)$.

4) Which strategy would be MOST efficient for computing $405 - 189$?

A. Use the standard algorithm with regrouping across a zero

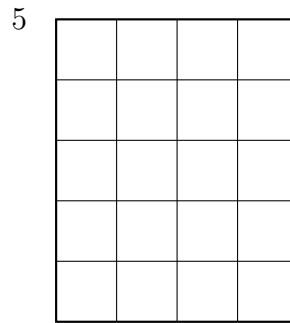
C. Count up from 189 to 405 on a number line

B. Decompose both numbers by place value and subtract each part

D. Round both numbers and subtract the rounded amounts



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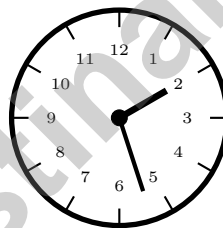
7)

Count all the unit squares. What is the area?

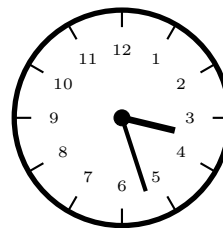
 A. 9 B. 18 C. 20 D. 40

8) Which clock shows 3 : 27?

Clock 1



Clock 2

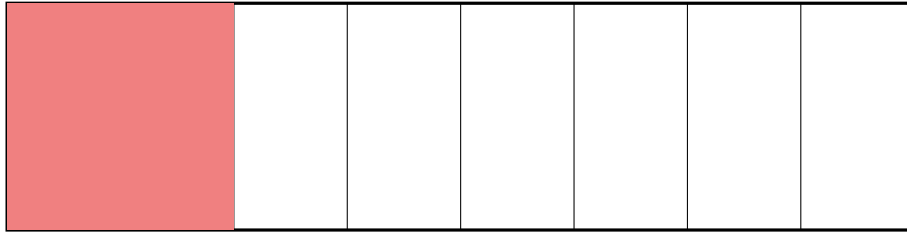
 A. Clock 1 B. Clock 2 C. Neither D. Both

9) A rectangular garden plot measures 5 units by 6 units. Ben wants to cover it with unit square pavers. How many pavers will he need without gaps or overlaps?

 A. 11 pavers B. 30 pavers C. 22 pavers D. 36 pavers

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- 1) A rectangle is divided into 8 equal parts. Two parts are shaded.



If each shaded part is a unit fraction, what is the total shaded fraction?

- A. $\frac{2}{8}$ C. $\frac{2}{1}$
 B. $\frac{1}{3}$ D. $\frac{1}{8}$
- 2) Noah loses 3 of 6 marbles. What fraction did he lose in simplest form?

3)

Container	Volume
Bottle	750 mL
Jug	2 L
Glass	250 mL
Cup	200 mL

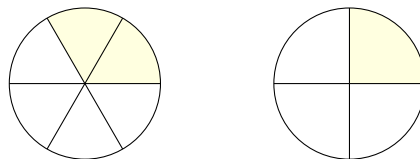
Which container holds the most liquid?

- A. Bottle C. Glass
 B. Jug D. Cup



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- 4) A square has a side length of 5 cm. What is the area of the square?
- A. 20 cm^2 C. 30 cm^2
 B. 10 cm^2 D. 25 cm^2
- 5) A rectangular picture has an area of 35 square centimeters. Which dimensions could make this area?
- A. 5 cm and 7 cm C. 4 cm and 8 cm
 B. 5 cm and 6 cm D. 6 cm and 6 cm
- 6) A city library has some books. After donating 156 books, it has 489 books left. How many books did the library have at the start?
- A. 645 C. 646
 B. 635 D. 636
- 7) A tiled rectangle has two parts: $10 \times 3 = 30$ and $10 \times 7 = 70$. Which expanded distributive equation is correct?
- A. $10 \times (3 + 7) = 10 + 10 = 20$ C. $10 \times 3 + 7 = 37$
 B. $(10 \times 3) + (10 \times 7) = 30 + 70 = 100$ D. $3 + 7 = 10$
- 8) Look at the two identical circles. Circle 1 shows $\frac{2}{6}$ shaded. Which fraction is equivalent to $\frac{2}{6}$?



Circle 1: $\frac{2}{6}$ shaded Circle 2: $\frac{1}{4}$ shaded

- A. $\frac{1}{3}$ C. $\frac{3}{6}$
 B. $\frac{2}{4}$ D. $\frac{1}{4}$



1) Kai has 20 toy cars. He puts 5 toy cars in each group. Which division shows the number of groups?

A. $20 \div 5 = 4$

C. $20 + 5 = 25$

B. $20 \div 4 = 4$

D. $20 - 5 = 15$

2) Noah draws a rectangle with length 5 units and width 4 units. The rectangle has 5 rows of 4 unit squares. Which repeated addition shows the area?

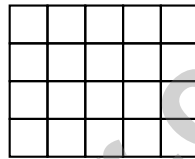
A. $5 + 5 + 5 + 5$

C. $5 + 4 + 5 + 4$

B. $4 + 4 + 4 + 4 + 4$

D. $4 + 5$

3) Here is a rectangle with 5 unit squares across and 4 unit squares down:



If you count all the unit squares, how many are there?

A. 9 unit squares

C. 20 unit squares

B. 18 unit squares

D. 20 square cm

4) A unit square measures 1 centimeter by 1 centimeter. How many unit squares are needed to cover a 5 cm by 4 cm rectangle?

A. 9 unit squares

C. 20 unit squares

B. 18 unit squares

D. 25 unit squares



Practice Test Answer Keys

How to use this section with a Grade 3 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

- 1) **Choice D is correct.** **(3.OA.A.3)** Divide: $35 \div 5 = 7$ cards per friend.
- 2) **Choice A is correct.** **(3.G.A.1)** Shapes with 4 sides and 4 right angles are rectangles. A square is a special rectangle with all equal sides. Rhombuses and trapezoids do not require right angles.
- 3) **The correct answer is 55 square units.** **(3.MD.C.7c)** $7 + 4 = 11$, and $5 \times 11 = 55$ square units.
- 4) **Choice A is correct.** **(3.NBT.A.2)** For $405 - 189$, the standard algorithm with regrouping (forming 3 hundreds 9 tens from 4 hundreds 0 tens) is most direct. Count-up (C) requires many jumps; estimation (D) loses precision; place-value (B) requires tracking three separate subtractions. The algorithm minimizes errors for this problem.
- 5) **Choice C is correct.** **(3.MD.B.4)** Count all X's on the plot: $4 + 0 + 2 + 1 = 7$ items total. (0 items appear at $5\frac{1}{2}$ since there are no X's there.)
- 6) **Choice A is correct.** **(3.NF.A.1)** The rectangle is divided into 4 equal parts, and 1 part is shaded. The fraction is $\frac{1}{4}$ (one-fourth). The numerator is 1 and the denominator is 4.
- 7) **Choice C is correct.** **(3.MD.C.7a)** Visual grid: 4 wide \times 5 tall = 20 square units.
- 8) **Choice B is correct.** **(3.MD.A.1)** At 3 : 27, the minute hand points to 27 minutes, just past the 5. The hour hand is between 3 and 4, just past 3. Clock 2 shows this accurately.
- 9) **Choice B is correct.** **(3.MD.C.5b)** $5 \times 6 = 30$ unit square pavers.
- 10) **Choice D is correct.** **(3.NF.A.2)** The line from 0 to 2 is cut into 4 equal steps, so each step is $\frac{1}{2}$. The third tick is $1\frac{1}{2}$.
- 11) **Choice D is correct.** **(3.OA.D.8)** Step 1: Toys per crate: $90 \div 9 = 10$ toys. Step 2: Crates remaining: $9 - 4 = 5$ crates. Total toys: $5 \times 10 = 50$ toys.
- 12) **Choice D is correct.** **(3.MD.C.7d)** Top: $4 \times 2 = 8$ sq m. Bottom left: $2 \times 3 = 6$ sq m. Bottom right: $2 \times 3 = 6$ sq m. Total: $8 + 6 + 6 = 20$ sq m.
- 13) **Choices A and B are correct.** **(3.OA.B.6)** A and B are correct because they show the two division facts from $7 \times 8 = 56$. C is false because $72 \div 9 = 8$, not 7. D is false because $20 \div 5 = 4$ and $5 \div 20$ is not a whole number; they are different. E is partially true but is a distractor because it doesn't test understanding of the inverse relationship.
- 14) **Choice D is correct.** **(3.OA.A.1)** 4 packs with 7 sheets each means 4 groups of 7. So $4 \times 7 = 28$ sheets.
- 15) **Choice C is correct.** **(3.NF.A.3a)** Two fractions are equivalent if they represent the same-size region. Since both shaded regions are equal, $\frac{2}{3} = \frac{4}{6}$.
- 16) **Choice D is correct.** **(3.OA.A.2)** $12 \div 4 = 3$. The picture shows 4 equal groups, each with 3 items.
- 17) **The correct answer is 28 sq ft.** **(3.MD.C.6)** Students should use either row-counting or column-counting and show repeated addition or skip-counting.
- 18) **Choice D is correct.** **(3.NBT.A.1)** The tens digit is 7. Since $7 \geq 5$, round up: 476 rounds to 500.
- 19) **Choice D is correct.** **(3.OA.C.7)** 8×6 means 8 groups of 6. Skip-counting: 6, 12, 18, 24, 30, 36, 42, 48. The product is 48.
- 20) **Choice B is correct.** **(3.NF.A.3d)** The orange dot is positioned between the $\frac{2}{3}$ mark and 1 on the number line, so it represents a fraction between $\frac{2}{3}$ and 1. This fraction is $\frac{5}{6}$.
- 21) **Choice D is correct.** **(3.MD.C.7b)** Area = length \times width = $6 \times 3 = 18$ square meters.
- 22) **Choice A is correct.** **(3.NF.A.3b)** Both bars show the same shaded length. $\frac{1}{4} = \frac{2}{8}$ because $\frac{1 \times 2}{4 \times 2} = \frac{2}{8}$.
- 23) **Choice B is correct.** **(3.NF.A.3)** $\frac{2}{4}$ and $\frac{3}{6}$ both equal half of a whole.
- 24) **Choice D is correct.** **(3.OA.A.4)** Think: $6 \times 5 = 30$, so $30 \div 5 = 6$.
- 25) **The correct answer is 20 unit squares.** **(3.MD.C.5a)** Multiply length by width: $5 \text{ ft} \times 4 \text{ ft} = 20$ square feet, which equals 20 unit squares of 1 ft each.
- 26) **Choice D is correct.** **(3.OA.B.5)** By the commutative property of multiplication, $7 \times 6 = 6 \times 7 = 42$.
- 27) **Choice C is correct.** **(3.MD.B.3)** Ants: $7 \times 4 = 28$. Bees: $3 \times 4 = 12$. Total: $28 + 12 = 40$.
- 28) **Choice A is correct.** **(3.G.A.2)** $\frac{1}{4}$ of a rectangle divided into 4 equal parts means coloring 1 part.



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Hi, Math Champion!

◇ You trained hard! 10 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!

★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

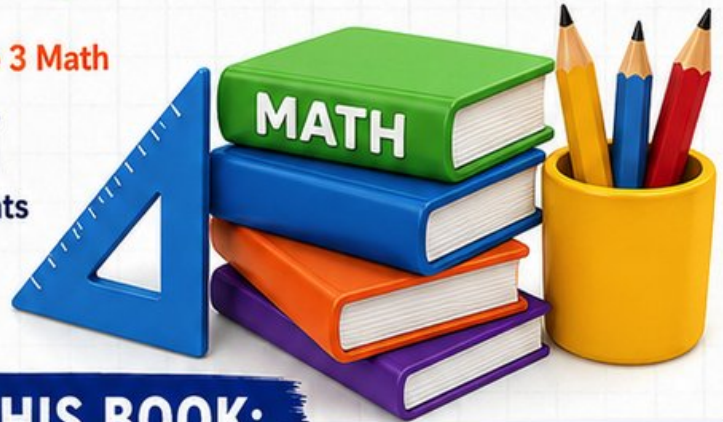
If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Coach

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