

5

New Hampshire

NH SAS

GRADE 3

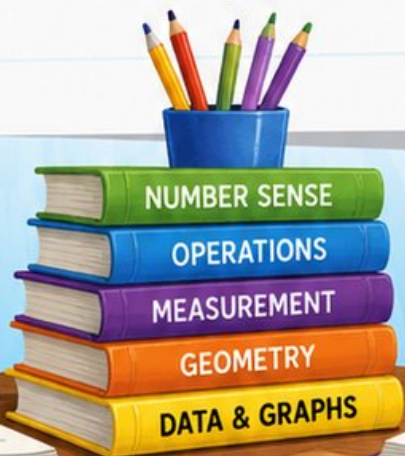
MATH

PRACTICE TESTS

Standards-Aligned Practice with
Review, Answer Keys, and Explanations

$24 \div 3 = 8$

$125 + 37$



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-
ALIGNED
PRACTICE



DETAILED
ANSWER KEYS



CLEAR
EXPLANATIONS
TO HELP YOU SUCCEED

5 New Hampshire NH SAS Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five focused 30-question checkpoints for Grade 3 math: facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome to the Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the New Hampshire NH SAS. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

New Hampshire has granite hills, forest paths, lake mornings, and crisp air made for clear thinking. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

Notice

Circle key words, units, and numbers before you start.

Build

Use arrays, number lines, equations, tables, or sketches.

Verify

Ask, "Does this answer fit the question?"

Five-checkpoint promise: I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

Best review habit: Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	Turn missed items into a clear next step.
Standards Reference	See how New Hampshire Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. That mix gives students practice with quick choices, careful reasoning, and short written answers.



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For more practice
& answers

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1) Lily paints a wall. She paints $\frac{4}{8}$ of the wall blue. Which fraction shows the same amount?

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

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

C. $\frac{3}{8}$

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

2) Ben's line plot shows student heights in inches with halves: 55, $55\frac{1}{2}$, 56, $56\frac{1}{2}$. There are 1 X at 55 inches, 2 X's at $55\frac{1}{2}$ inches, 3 X's at 56 inches, and 2 X's at $56\frac{1}{2}$ inches. How many students are exactly 56 inches or taller?

A. 3

B. 4

C. 5

D. 6

3) What fraction is the third tick on a number line split into 4 equal parts?



4) A container holds 6 liters of oil. The recipe uses 2 liters. How many liters are left?

A. 2 L

B. 4 L

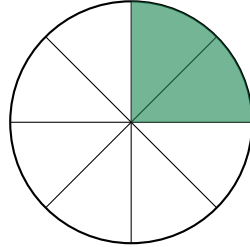
C. 6 L

D. 8 L



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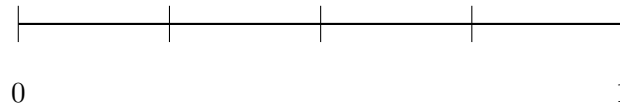
- 5) A pizza is cut into 8 equal slices. Noah eats 2 slices. What fraction of the pizza does Noah eat?



- A. $\frac{1}{8}$ C. $\frac{3}{8}$
 B. $\frac{2}{8}$ D. $\frac{6}{8}$
- 6) Which expression is another way to show $2 + 2 + 2 + 2 = 8$?
- A. $2 + 2 + 2 = 6$ C. $2 + 4 = 6$
 B. $2 \times 8 = 16$ D. $4 \times 2 = 8$
- 7) A circle is divided into 3 equal slices. One slice is one unit fraction. Which fraction name is correct?
- A. $\frac{1}{2}$ C. $\frac{3}{3}$
 B. $\frac{1}{3}$ D. $\frac{2}{3}$
- 8) You need to multiply 4×70 . Which shows a strategy you could use?
- A. $4 + 7 + 10 = 21$ C. $4 + 70 = 74$
 B. $(4 \times 7) \times 10 = 28 \times 10 = 280$ D. $(4 + 7) \times 10 = 110$



- 9) A number line from 0 to 1 is divided into 4 equal parts. Which fraction names the first tick mark after 0?

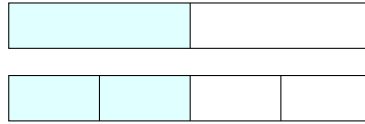


- A. $\frac{1}{4}$ C. $\frac{1}{3}$
 B. $\frac{1}{2}$ D. $\frac{2}{4}$
- 10) Which comparison is true?
- A. $\frac{3}{2} > \frac{3}{3}$ C. $\frac{3}{2} = \frac{3}{3}$
 B. $\frac{3}{2} < \frac{3}{3}$ D. $\frac{3}{3} > \frac{3}{2}$
- 11) Which multiplication has an odd product?
- A. 6×3 C. 5×7
 B. 4×7 D. 8×2
- 12) A recipe needs $\frac{18}{6}$ cups of flour. How many whole cups is this?
- A. 6 C. 18
 B. 3 D. 2
- 13) Ava has a rectangular piece of paper. The length is 7 inches and the width is 2 inches. What is the area?
- A. 9 sq in C. 12 sq in
 B. 14 sq in D. 18 sq in



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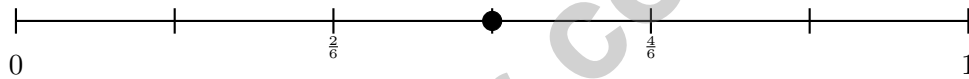
- 1) Two identical length strips. Strip P has 2 equal parts with 1 shaded. Strip Q has 4 equal parts with 2 shaded. Which statement is correct?



Strip P: $\frac{1}{2}$

Strip Q: $\frac{2}{4}$

- A. Strip Q has more.
 C. They shade the same amount.
- B. Strip P has more.
 D. Cannot be compared.
- 2) On a number line from 0 to 1, a point is marked but not labeled. The point is between $\frac{2}{6}$ and $\frac{4}{6}$. Which fraction best describes its position?



- A. $\frac{2}{6}$
 C. $\frac{4}{6}$
- B. $\frac{3}{6}$
 D. $\frac{5}{6}$
- 3) Look at the fact family: $4 \times 8 = 32$, $8 \times 4 = 32$, $32 \div 4 = 8$, and $32 \div 8 = 4$. If you know that $4 \times 8 = 32$, what is $32 \div 8$?

4) A number line from 0 to 1 has tick marks that divide it into equal parts. There are 5 tick marks total (counting 0 and 1). How many equal parts are there?

A. 3

C. 5

B. 4

D. 6

5) What is $45 \div 5$?

A. 8

C. 10

B. 11

D. 9

6) A watering can holds 5 liters. Sam uses 2 liters to water the garden and 1500 mL to water the pots. How many milliliters of water remain in the can?

7) A store orders 5 boxes of red apples with 7 apples in each box. They also order 4 boxes of green apples with 9 apples in each box. How many apples in total?

A. 35

C. 71

B. 36

D. 72

8) Find the missing number in the fact family:

$$2 \times 8 = 16 \quad 16 \div 2 = \square$$

A. 2

C. 16

B. 18

D. 8



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- 1) A school has 72 students going on a field trip. They are divided equally into 8 buses. Then 6 more students join one bus. How many students are on that bus now?

A. 9
 B. 10
 C. 15
 D. 24

- 2) A rectangular bookmark has length 9 cm and width 2 cm. Find the area of the bookmark.



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

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

- 4) A picture graph shows flowers. Each flower symbol means 3 flowers. If there are 2 symbols for red flowers and 4 symbols for yellow flowers, how many flowers are there in total?

A. 6
 B. 12
 C. 18
 D. 24

- 5) Two rectangles have the same area of 24 square units. Rectangle A is 6 units by 4 units. Which dimensions could Rectangle B have?

A. 8 units by 3 units
 B. 5 units by 5 units
 C. 6 units by 5 units
 D. 7 units by 3 units



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6) Sam is paving a patio with unit square stepping stones. The patio is 4 units by 7 units. How many stones does he need?

A. 22 stones

B. 11 stones

C. 56 stones

D. 28 stones

7) Write the whole number 4 as a fraction with denominator 1.

8) The pattern for multiples of 7 starts: 7, 14, 21, 28, 35, 42, ...
What is the next number?

A. 43

B. 48

C. 49

D. 50

3 meters



10 meters

9)

A rectangular walkway is 10 meters long and 3 meters wide. What is the area of the walkway?

A. 13 sq m

B. 30 sq m

C. 26 sq m

D. 60 sq m



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 A is correct.** **(3.NF.A.3a)** $\frac{4}{8} = \frac{1}{2}$. Both represent one-half of the wall.
- 2) **Choice C is correct.** **(3.MD.B.4)** 56 inches or taller includes 56 and $56\frac{1}{2}$: that is $3 + 2 = 5$ students.
- 3) **The correct answer is $\frac{3}{4}$.** **(3.NF.A.2)** The third tick out of 4 equal parts is $\frac{3}{4}$.
- 4) **Choice B is correct.** **(3.MD.A.2)** Subtract: $6 - 2 = 4$ L.
- 5) **Choice B is correct.** **(3.G.A.2)** Two slices out of eight equal slices is $\frac{2}{8}$.
- 6) **Choice D is correct.** **(3.OA.A.1)** The repeated addition $2 + 2 + 2 + 2$ has four 2's added, so it equals $4 \times 2 = 8$.
- 7) **Choice B is correct.** **(3.NF.A.1)** A circle with 3 equal parts has each part as $\frac{1}{3}$ (one-third).
- 8) **Choice B is correct.** **(3.NBT.A.3)** You can decompose 70 as 7×10 , then multiply $4 \times 7 = 28$ first, and finally multiply by 10. This uses the associative property of multiplication.
- 9) **Choice A is correct.** **(3.NF.A.2a)** The first tick is at one of four equal parts, which is $\frac{1}{4}$.
- 10) **Choice A is correct.** **(3.NF.A.3d)** Three halves equals 1.5 (greater than one whole). Three thirds equals 1 (exactly one whole). So $\frac{3}{2} > \frac{3}{3}$.
- 11) **Choice C is correct.** **(3.OA.D.9)** $5 \times 7 = 35$, which is odd. Choices A, B, D all have an even factor, so they give even products.
- 12) **Choice B is correct.** **(3.NF.A.3c)** 18 sixths = $18 \div 6 = 3$ wholes. Six sixths make one whole.
- 13) **Choice B is correct.** **(3.MD.C.7)** Area = $7 \times 2 = 14$ square inches.
- 14) **Choice D is correct.** **(3.OA.A.2)** Measurement division: $36 \div 6 = 6$. There are 6 groups of 6 stickers.
- 15) **The correct answer is 7.** **(3.OA.C.7)** $35 \div 5 = 7$.
- 16) **Choices B and C are correct.** **(3.OA.A.4)** Choice B is true because $48 \div 6 = 8$. Choice C is true because $7 \times 7 = 49$. Choice A is false ($6 \times 8 = 48$, not 42). Choice D is false ($54 \div 9 = 6$, not 5). Choice E is false ($4 \times 9 = 36$, not 35).
- 17) **Choice B is correct.** **(3.MD.C.5)** The rectangle is 4 units wide and 3 units tall. $4 \times 3 = 12$ square units.
- 18) **Choice B is correct.** **(3.MD.B.3)** First bar: $4 \times 5 = 20$. Second bar: $2 \times 5 = 10$. Difference: $20 - 10 = 10$.
- 19) **Choice A is correct.** **(3.MD.C.7c)** Both rectangles have width 3. Total length is $10 + 6 = 16$. Combined area is $(3 \times 10) + (3 \times 6) = 30 + 18 = 48$.
- 20) **Choice C is correct.** **(3.MD.C.7d)** First: $5 \times 3 = 15$ sq units. Two others: $2 \times 3 = 6$ each. Total: $15 + 6 + 6 = 27$ sq units.
- 21) **Choice A is correct.** **(3.OA.B.5)** $(2 \times 5) \times 3$ makes 10 first because $2 \times 5 = 10$. Then $10 \times 3 = 30$.
- 22) **Choice A is correct.** **(3.NBT.A.1)** The ones digit is 3. Since $3 < 5$, round down: 283 rounds to 280.
- 23) **Choice B is correct.** **(3.MD.C.5b)** 4 rows of 8 unit squares gives $4 \times 8 = 32$ unit squares.
- 24) **Choice B is correct.** **(3.NF.A.3b)** The numerator was multiplied by 2 (from 1 to 2). Multiply the denominator by 2: $3 \times 2 = 6$. So $\frac{1}{3} = \frac{2}{6}$.
- 25) **Choice A is correct.** **(3.NF.A.3)** Both bars show the same shaded amount. Both equal half.
- 26) **Choice A is correct.** **(3.MD.C.5a)** A unit square has sides 1 unit long. Multiple unit squares are arranged with no gaps or overlaps to measure the area of shapes, following CCSS 3.MD.C.5.b.
- 27) **Choice C is correct.** **(3.OA.D.8)** Step 1: Divide: $72 \div 8 = 9$ marbles per bag. Step 2: Remaining bags: $8 - 3 = 5$ bags; kept marbles: $5 \times 9 = 45$ marbles. (Choice A is step 1 only; choice B is incorrect calculation.)
- 28) **Choice A is correct.** **(3.MD.A.1)** Noon is 12 : 00 PM. $12 : 00 + 25 \text{ min} = 12 : 25 \text{ PM}$. Distractor B (off-by-10), C (full hour), D (adds extra hour).
- 29) **Choice B is correct.** **(3.MD.C.7b)** Area = length \times width = $9 \times 8 = 72$ square feet. Choice A (17) is the sum; C (64) is 8×8 ; D (63) is 9×7 .
- 30) **The correct answer is 7.** **(3.OA.B.6)** $56 \div 8 = 7$ because $7 \times 8 = 56$. Division and multiplication are inverse operations.



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Champion tip: on test day, walk in proud. You trained for this. You are ready!

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

Jay Daie

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Answer Keys & Explanations

Detailed answers that show steps and clear reasoning.



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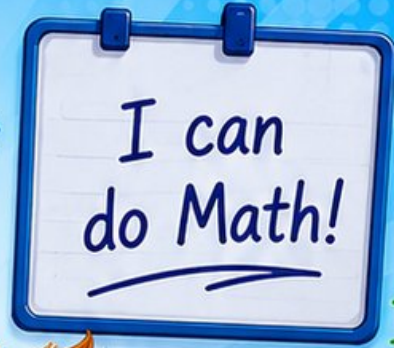
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$$\begin{array}{r} 7 \times 8 \\ = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ - 178 \\ \hline = 274 \end{array}$$



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