

7

Maine

Through Year Assessment

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



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

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



7 Full-Length
Practice Tests



Standards-
Aligned



Build Confidence
and Skills



Mixed Question
Types

**ANSWER
KEY**

INCLUDED

7 Maine Through Year Assessment Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven complete 30-question Grade 4 practice rounds for Through Year Assessment, built around pine forests, lighthouse beams, and patient checking, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Maine Math Explorer!

Seven steady rounds on the Pine Tree State math route

This book gives you seven full Grade 4 practice tests for Through Year Assessment. Each round uses pine forests, lighthouse beams, and patient checking to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Maine 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 Maine Through Year Assessment 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 Pine Tree 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 Through Year Assessment 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.

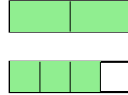


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& answers

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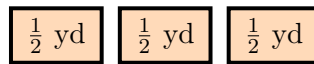
★ Practice Test 1	_____	16
★ Practice Test 2	_____	28
★ Practice Test 3	_____	40
★ Practice Test 4	_____	51
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Practice Test Answers and Explanations	_____	100

1) Which mixed number is shown?



- A. $1\frac{1}{4}$
 B. $1\frac{2}{4}$

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



2) 3 strips, each $\frac{1}{2}$ yard

This shows 3 ribbon strips. Each strip is $\frac{1}{2}$ yard. What is the total length?

- A. $\frac{3}{6}$
 B. $\frac{3}{2}$ yards (or $1\frac{1}{2}$ yards)

- C. $\frac{1}{2}$
 D. 3 yards

3) How many lines of symmetry does a regular quadrilateral (square) have?

- A. 2
 B. 3

- C. 4
 D. 6

4) Which pair are both factors of 36?

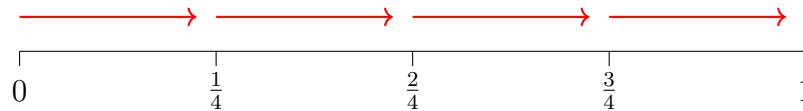
- A. 4 and 8
 B. 6 and 7

- C. 6 and 9
 D. 8 and 9



- 5) Give one decimal greater than 0.5 and less than 0.8.

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

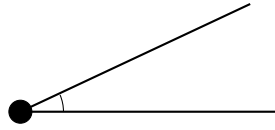


- A. 1 C. 3
 B. 2 D. 4
- 7) Diego has one chocolate bar. He gives $\frac{1}{6}$ of the bar to his sister. Which amount is larger: the original bar or what Diego has left?
- A. The original bar C. They are the same
 B. What Diego has left D. Cannot determine
- 8) Zoe's basketball team scored 9 points in the first quarter. In the second quarter, they scored 2 times as many points. How many points did they score in the second quarter?
- A. 11 C. 20
 B. 16 D. 18



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9)



The angle shown has a small opening. Which statement is true?

- A. It is a right angle C. It is an acute angle
 B. It is a straight angle D. It is an obtuse angle

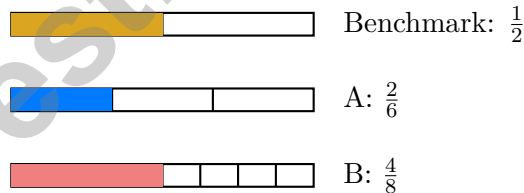
10) Which list shows only multiples of $\frac{1}{4}$?

- A. $\frac{1}{2}, \frac{3}{5}, \frac{1}{4}$ C. $\frac{1}{4}, \frac{2}{8}, \frac{1}{12}$
 B. $\frac{2}{4}, \frac{1}{4}, \frac{3}{4}$ D. $\frac{1}{5}, \frac{2}{5}, \frac{3}{5}$

11) A pizza was cut into 12 slices. Marcus ate $\frac{3}{12}$ of the pizza and Sofia ate $\frac{4}{12}$. What fraction of the pizza remains?

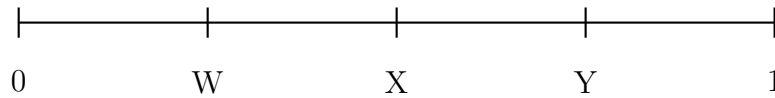
- A. $\frac{7}{12}$ C. $\frac{1}{12}$
 B. $\frac{5}{12}$ D. $\frac{12}{12}$

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



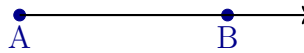
- A. $\frac{2}{6}$ is equivalent to $\frac{1}{2}$ C. Both fractions are equivalent to $\frac{1}{2}$
 B. $\frac{4}{8}$ is equivalent to $\frac{1}{2}$ D. Neither fraction is equivalent to $\frac{1}{2}$

5) Look at the number line. Where is 0.45 located?



- A. At W
- B. Between W and X
- C. Between X and Y
- D. At Y

6) In this diagram, which description best matches the ray shown?



- A. Ray from B through A
- B. Ray from A through B
- C. Line segment AB
- D. Line through A and B

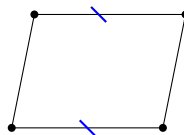
7) Which letter has exactly 2 lines of symmetry?

- A. K
- B. N
- C. I
- D. R

8) What is $3\frac{3}{4} - 1\frac{2}{4} - \frac{3}{4}$?

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

9) Look at this quadrilateral with marked sides. How many sides are equal?



Marked sides

- A. One side
- B. Two sides
- C. Three sides
- D. Four sides



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1) Which is a prime number between 30 and 40?

A. 32

C. 37

B. 35

D. 39

2) A craft project needs 27 beads per bracelet. A shop has 350 beads total. How many complete bracelets can they make, and will there be beads left over?

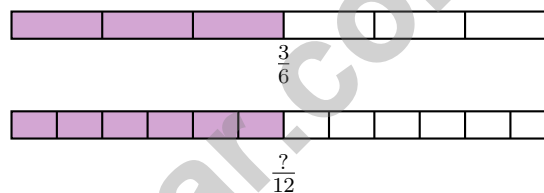
A. 12 bracelets, 1 bead left

C. 13 bracelets, 1 bead left

B. 13 bracelets, 0 beads left

D. 12 bracelets, 26 beads left

3) Look at the two fraction bars. Both are the same length.



What number replaces the question mark?

A. 4

C. 6

B. 5

D. 8

4) Which shows the error in this student work? The student said $\frac{1}{4} + \frac{1}{4} = \frac{2}{8}$.

A. Should not add fractions with same denominators

C. The correct answer is $\frac{2}{4}$, not $\frac{2}{8}$

B. Adding the numerators and denominators separately (mistake)

D. Cannot add fractions at all



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- 5) A library counted 43,678 books. Estimate to the nearest ten thousand.
- A. 40,000 C. 44,000
 B. 43,000 D. 50,000
- 6) Two groups of students measured rope lengths. Group A: $\frac{1}{4}$ in, $\frac{1}{4}$ in, $\frac{2}{4}$ in. Group B: $\frac{2}{4}$ in, $\frac{2}{4}$ in, $\frac{3}{4}$ in. Which group has the longer total rope length?
- A. Group A C. Both groups are equal
 B. Group B D. Cannot determine
- 7) The space outside an angle is called:
- A. the interior C. the vertex
 B. the exterior D. a side
- 8) An angle measures 120° and is divided into three equal parts. What is the measure of each part?
- A. 30° C. 60°
 B. 40° D. 120°
- 9) What is $4\frac{1}{6} + 1\frac{4}{6}$?
- A. $5\frac{1}{6}$ C. $5\frac{5}{6}$
 B. $5\frac{4}{6}$ D. $6\frac{1}{6}$
- 10) Sam has \$0.25. Write this amount as a fraction of a dollar.

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.NF.B.3) The top bar is completely full (1 whole). The bottom bar is filled $\frac{3}{4}$ of the way. Together: $1\frac{3}{4}$ ✓.
- Choice B is correct.** (4.NF.B.4) We have 3 ribbon strips that are each $\frac{1}{2}$ yard long. We multiply: $3 \times \frac{1}{2} = \frac{3}{2} = 1\frac{1}{2}$ yards total.
- Choice C is correct.** (4.G.A.3) A square is perfectly balanced four ways: two lines pass through the centers of opposite sides (up/down and left/right), and two lines pass through opposite corners (diagonals). The answer is 4 lines of symmetry.
- Choice C is correct.** (4.OA.B.4) For both numbers to be factors, both must divide 36 evenly. Check: $36 \div 6 = 6$ ✓ and $36 \div 9 = 4$ ✓. Choice A: 8 doesn't divide 36 ($36 \div 8 = 4$ r 4); choice B: 7 doesn't divide 36; choice D: 8 doesn't divide 36.
- The correct answer is 0.6.** (4.NF.C.5) Any decimal between 0.5 and 0.8 (not including the endpoints) works. For example, 0.6 has 6 tenths, which is more than 0.5's 5 tenths and less than 0.8's 8 tenths. So $0.5 < 0.6 < 0.8$. ✓ Other valid answers: 0.51, 0.55, 0.7, 0.79, etc.
- Choice D is correct.** (4.NF.B.3) The number line shows four arrows, each jumping $\frac{1}{4}$. Counting them: 4 jumps of $\frac{1}{4}$ equal 1 whole.
- Choice A is correct.** (4.NF.A.1) Diego started with the whole bar ($\frac{6}{6}$). After giving $\frac{1}{6}$ away, he has $\frac{5}{6}$ left. The original ($\frac{6}{6}$) is larger.
- Choice D is correct.** (4.OA.A.2) "2 times as many" means multiply. The team scored $2 \times 9 = 18$ points in the second quarter.
- Choice C is correct.** (4.MD.C.5) The opening is smaller than a right angle, so this is an acute angle.
- Choice B is correct.** (4.NF.B.4) All count by fourths: $2 \times \frac{1}{4} = \frac{2}{4}$, $1 \times \frac{1}{4} = \frac{1}{4}$, and $3 \times \frac{1}{4} = \frac{3}{4}$.
- Choice B is correct.** (4.NF.B.3) The pizza is cut into 12 slices. Step 1: Add the slices eaten: $\frac{3}{12} + \frac{4}{12} = \frac{7}{12}$. Step 2: Subtract from the whole: $\frac{12}{12} - \frac{7}{12} = \frac{5}{12}$ remains.
- 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.5) The small angle reaches the first degree mark at 9° , containing 9 one-degree angles.
- Choice A is correct.** (4.MD.C.7) To find the missing part, subtract what you know from the whole angle: $150^\circ - 85^\circ = 65^\circ$.
- Choice C is correct.** (4.MD.C.6) This angle measures about 95° , which is more than 90° but less than 180° . That's the definition of obtuse, so the answer is obtuse.
- Choice B is correct.** (4.NF.B.3) Same denominator, same rule: add the numerators ($4 + 5 = 9$), keep the denominator. Answer: $\frac{9}{10}$.
- The correct answer is A, E.** (4.NF.C.5) Choice A: $\frac{70}{100}$ is the hundredths form of $\frac{7}{10}$ —multiply by $\frac{10}{10}$. Choice E is $\frac{7}{10}$ itself. The others don't equal 7 tenths.
- Choice C is correct.** (4.NBT.A.2) The hundreds digit (third from right) is 7. Value: $7 \times 100 = 700$ ✓
- Choice C is correct.** (4.MD.A.2) Day one: 120 miles. Day two: 145 miles. Add: $120 + 145 = 265$ miles. The total distance is 265 miles.
- The correct answer is 2,700.** (4.NBT.A.1) Original: 4,723. After swapping 4 and 7: 7,423. Increase: $7,423 - 4,723 = 2,700$. ✓
- Choice B is correct.** (4.MD.A.1) Check each option. A: 2 m = 200 cm, not 2 cm. B: 5 feet = $5 \times 12 = 60$ inches. Correct! C: 3 L = 3,000 mL, not 30 mL. D: 4 pounds = $4 \times 16 = 64$ ounces, not 48 oz. The answer is B.
- Choice A is correct.** (4.NF.C.5) The phrase "six tenths" appears in both the decimal form (0.6) and the fraction form ($\frac{6}{10}$).
- The correct answer is 234.** (4.NBT.B.6) Use long division: $16 \div 7 = 2$ r2, bring down the 3 to get $23 \div 7 = 3$ r2, bring down the 8 to get $28 \div 7 = 4$. Each student gets 234 pencils.



Hi, Math Inventor!

◇ 7 practice tests. 7 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

Inventor tip: on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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

Jay Daie

Your Math Inventor

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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Mixed Question Types



Answer Key Included