

# 6 Maine

**Through Year Assessment**

## GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**MASTER KEY MATH CONCEPTS  
BUILD CONFIDENCE FOR TEST DAY**

**INCLUDES COMPREHENSIVE ANSWER KEY  
ALIGNED STATE STANDARDS**

# 6 Maine Through Year Assessment Grade 4 Math Practice Tests

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



Six 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!

Six steady rounds on the Pine Tree State math route

This book gives you six 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?

Six tests, 180 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 4–6	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.



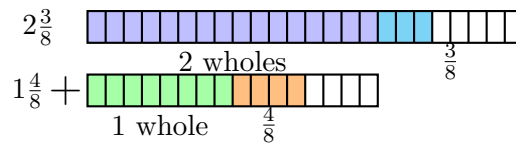
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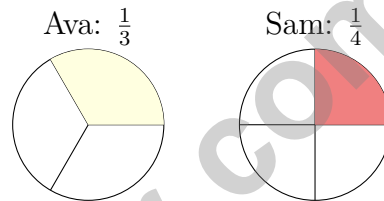


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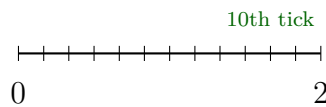


What is the sum shown by the bar diagrams above?

- A.  $3\frac{7}{8}$ 
 C.  $4\frac{1}{8}$   
 B.  $3\frac{6}{8}$ 
 D.  $4\frac{7}{8}$
- 6) Two pizzas are the same size. Ava ate  $\frac{1}{3}$  of one pizza. Sam ate  $\frac{1}{4}$  of another. Who ate more?



- A. Ava ate more
  C. They ate the same  
 B. Sam ate more
  D. Cannot determine
- 7) A number line from 0 to 2 has tick marks every  $\frac{1}{6}$ . What fraction is at the 10th tick mark?

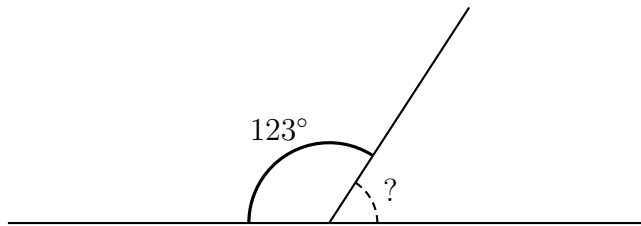


- A.  $\frac{6}{6}$ 
 C.  $\frac{10}{12}$   
 B.  $\frac{10}{6}$ 
 D.  $\frac{5}{6}$



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- 8) A straight line is marked at a point. On one side of the point, an angle measures  $123^\circ$ . What is the measure of the angle on the other side of the point?



- A.  $123^\circ$                        C.  $180^\circ$   
 B.  $57^\circ$                          D.  $90^\circ$
- 9) A garden is divided into 5 equal rows. Plants are in 3 rows. Write the fraction of the garden with plants as a sum of unit fractions.
- A.  $\frac{3}{5}$                                  C.  $\frac{2}{5}$   
 B.  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$                        D.  $\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$
- 10) A rectangle has a length of 11 feet and a width of 7 feet. What is its perimeter?
- A. 36 ft                               C. 54 ft  
 B. 18 ft                                 D. 77 ft
- 11) A farmer plants 5 rows of vegetables. Each row has 15 plants. How many plants does the farmer plant in total?



1) Sam measured ribbon lengths in fourths of a meter. She got:  $\frac{2}{4}$ ,  $\frac{3}{4}$ ,  $\frac{2}{4}$ ,  $\frac{4}{4}$ ,  $\frac{3}{4}$ ,  $\frac{3}{4}$ . When plotted, which measurement has the most X marks?

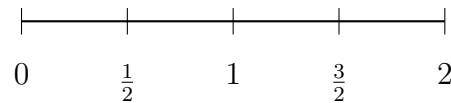
A.  $\frac{2}{4}$  m

C.  $\frac{4}{4}$  m

B.  $\frac{3}{4}$  m

D. 1 m

2) 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 C. 3 hops B. 2 hops D. 4 hops

3) Zoe collects 9 stickers. Kyle collects 2 times as many stickers. How many stickers does Kyle collect?

 A. 7 C. 9 B. 11 D. 18

4) Diego and his friend made a pie. Diego ate  $\frac{2}{6}$  of the pie and his friend ate  $\frac{1}{6}$  of the pie. What fraction of the pie did they eat together?

 A.  $\frac{3}{6}$  C.  $\frac{1}{6}$  B.  $\frac{2}{12}$  D.  $\frac{3}{12}$ 

5) What is  $52 \times 15$ ?

 A. 520 C. 650 B. 830 D. 780

- 6) Ming collected 8,643 stickers. Round this to the nearest hundred.

- 7) Write  $2 \times \frac{1}{3}$  as a fraction.

A.  $\frac{1}{6}$   
 B.  $\frac{2}{3}$

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

- 8) Marcus buys 4 containers of yogurt. Each container has  $\frac{2}{5}$  pound. What is the total weight?

A.  $\frac{2}{20}$  pounds  
 B.  $\frac{6}{5}$  pounds

C.  $\frac{4}{2}$  pounds  
 D.  $\frac{8}{5}$  pounds or  $1\frac{3}{5}$  pounds

- 9) A bookstore sells 12 new books per day for 15 days. The store also has 18 older books on a display shelf. Not counting the older books, how many new books did the bookstore sell?

A. 120  
 B. 198

C. 200  
 D. 180 books

- 10) How many factor pairs does 28 have?



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1) How many tenths are in  $\frac{3}{10}$ ?

2) There are 5 red ribbons. There are 4 times as many blue ribbons. How many ribbons in total?

A. 20

C. 15

B. 9

D. 25

3) Olivia drives 6 hours each day for 15 days. If she drives 65 miles each hour, how far does she drive per day?

A. 390 miles

C. 180 miles

B. 330 miles

D. 450 miles

4) At a bakery, a cookie costs \$0.49 and a donut costs \$0.94. Which item costs less?

A. Cookie (\$0.49)

C. Both cost the same

B. Donut (\$0.94)

D. Cannot tell from prices

5) Compare: 7,249 rounded to the nearest hundred vs. 7,251 rounded to the nearest hundred.

A. Both round to 7,200

C. 7,249  $\rightarrow$  7,200 and 7,251  $\rightarrow$  7,300

B. Both round to 7,300

D. 7,249  $\rightarrow$  7,300 and 7,251  $\rightarrow$  7,200



6) Which subtraction requires regrouping across a zero?

A.  $5,234 - 2,102$

C.  $4,567 - 1,123$

B.  $6,007 - 3,256$

D.  $8,432 - 5,321$

7) Emma starts reading at 1:20 p.m. and finishes at 2:35 p.m. How many minutes did she read?

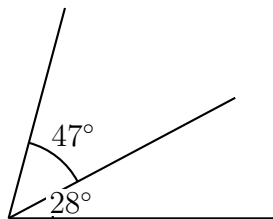
8) Ava has two bags of stickers. One bag has 4 stickers out of 8 total. The other bag has 2 stickers out of 4 total. Are the fractions of stickers equivalent?

 A. Yes, both are  $\frac{1}{2}$  C. No, the fractions are different B. Yes, both are  $\frac{1}{4}$  D. Cannot be determined

9) What is the main characteristic of a line in geometry?

 A. It has exactly two endpoints C. It is always horizontal B. It continues forever in both directions D. It is shorter than a line segment

10) Look at the angle diagram. Two angles share a vertex. One angle measures  $28^\circ$  and the other measures  $47^\circ$ . Together, what is the total measure of both angles?



A.  $19^\circ$

C.  $104^\circ$

B.  $75^\circ$

D.  $90^\circ$



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& answers

## 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

- The correct answer is 5.** (4.NF.B.4) The numerator 5 tells us how many shaded parts. So  $\frac{5}{8}$  has 5 shaded parts out of 8.
- Choice D is correct.** (4.OA.B.4) Unit squares in each figure: 2, 4, 6. Each time adds 2. Figure 5 has  $6 + 2 + 2 = 10$  squares.
- Choice D is correct.** (4.NBT.B.4) Add from ones:  $5 + 6 = 11$  (write 1, carry 1),  $4 + 5 + 1 = 10$  (write 0, carry 1),  $3 + 4 + 1 = 8$ ,  $2 + 3 = 5$ ,  $1 + 2 = 3$ . The sum is **35,801**.
- Choice A is correct.** (4.NBT.B.5) Use the distributive property:  $31 \times 21 = 31 \times (20 + 1) = 620 + 31 = 651$ .
- Choice A is correct.** (4.NF.B.3) Add the wholes:  $2 + 1 = 3$ . Add the fractions:  $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$ . The sum is  **$3\frac{7}{8}$** .
- Choice A is correct.** (4.NF.A.1) Same numerator, different denominators: larger denominator means smaller pieces. Since thirds are bigger than fourths,  $\frac{1}{3} > \frac{1}{4}$ .
- Choice B is correct.** (4.NF.B.4) Tick marks are every  $\frac{1}{6}$ . The 10th tick is at  $10 \times \frac{1}{6} = \frac{10}{6}$ .
- Choice B is correct.** (4.MD.C.7) On a straight line, angles on both sides add to  $180^\circ$ . Subtract to find the other:  $180^\circ - 123^\circ = 57^\circ$ .
- Choice D is correct.** (4.NF.B.3) The garden has 5 equal rows, and plants are in 3 of them. So the fraction with plants is  $\frac{3}{5}$ , which breaks into unit fractions:  $\frac{3}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$ .
- Choice A is correct.** (4.MD.A.3)  $P = 2(11) + 2(7) = 22 + 14 = 36$  ft.
- The correct answer is 75.** (4.OA.A.3) Equal rows means multiply: 5 rows  $\times$  15 plants = **75** plants.
- Choice B is correct.** (4.G.A.2) Both a square and a rhombus have four equal sides and two pairs of parallel sides. However, a square must have four right angles at each corner, while a rhombus does not have to have any right angles. The answer is **B**.
- Choice B is correct.** (4.MD.B.4) On the line plot, count the X marks stacked above  $\frac{2}{4}$  inch. There are exactly **2** X marks at that position.
- Choice D is correct.** (4.NBT.A.1) In 2,345, the thousands digit is 2. Each thousands block represents 1,000, so Maya used **2** thousands blocks. ✓
- Choice A is correct.** (4.NF.C.5) The decimal 0.35 reads as “zero point thirty-five,” which is named thirty-five hundredths.
- Choice A is correct.** (4.NF.C.5) Compare the tenths place first:  $3 > 2$ , so  $0.32 > 0.23$ . The tenths place matters most!
- The correct answer is B, C.** (4.OA.A.1) Equations that show “2 times as many” have 2 as a factor in the multiplication. Choice B ( $10 = 2 \times 5$ ) and choice C ( $14 = 2 \times 7$ ) both do. Choices A and D show addition (not multiplication), and choice E has 6 as the multiplier, not 2.
- Choice C is correct.** (4.G.A.1) When Maria draws an angle just a bit wider than a right angle, she has created an obtuse angle. Any angle between  $90^\circ$  and  $180^\circ$  is obtuse.
- Choice C is correct.** (4.NBT.A.3) We’re rounding to the nearest thousand. Look at the hundreds digit: 9. Since  $9 \geq 5$ , we round UP! The thousands digit changes from 4 to 5, so the answer is **65,000**. ✓
- Choice B is correct.** (4.OA.B.4) Walk through the factor pairs of 48:  $1 \times 48$ ,  $2 \times 24$ ,  $3 \times 16$ ,  $4 \times 12$ ,  $6 \times 8$ . Combine both sides: **1, 2, 3, 4, 6, 8, 12, 16, 24, 48** (10 factors). Choice A misses 3 and 16; choice C misses 16; choice D misses 1.
- Choice B is correct.** (4.NF.B.4) On the number line, we make 6 jumps of  $\frac{1}{4}$  each, landing at  $\frac{6}{4} = 1\frac{1}{2}$ . So  $6 \times \frac{1}{4} = 1\frac{1}{2}$ . The answer is  **$1\frac{1}{2}$** .
- The correct answer is  $77^\circ$ .** (4.MD.C.5) The label gives the angle measure:  **$77^\circ$** .
- Choice D is correct.** (4.NBT.B.6) Use long division:  $2 \div 9 = 0$  r2, bring down the 9 to get  $29 \div 9 = 3$  r2, bring down the 6 to get  $26 \div 9 = 2$  r8, bring down the 1 to get  $81 \div 9 = 9$ . The quotient is **329** with no remainder.
- Choice C is correct.** (4.OA.A.2) “4 times as many” is a multiplication signal:  $4 \times 8 = 32$  paintbrushes.
- Choice A is correct.** (4.NF.B.3) The bar is divided into 10 equal parts. The light coral shows  $\frac{9}{10}$  and the dark red shows  $\frac{1}{10}$ . Together:  $9 + 1 = 10$  tenths = **1** whole.
- Choice B is correct.** (4.NF.B.4) Four pieces of string, each weighing  $\frac{3}{5}$  ounce, weigh  $4 \times \frac{3}{5} = \frac{12}{5}$  ounces total.



## Hi, Math Champion!

◇ You trained hard! 6 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](mailto:jay@testinar.com).

**Jay Daie**

Your Math Coach

# PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

Ideal 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 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.



### Master Key Concepts

Reinforce important skills aligned with grade-level standards.



### 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 & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



Visit [testinar.com/math4](https://testinar.com/math4) for additional Grade 4 math resources and practice materials.

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Prepares Students for Test Day Success