

# 3

# Maine

## Through Year Assessment

### GRADE 4

# MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**5 FULL-LENGTH**  
PRACTICE TESTS



**STANDARDS-ALIGNED**  
REVIEW



**MIXED PRACTICE**  
QUESTIONS



**ANSWER KEY**  
INCLUDED

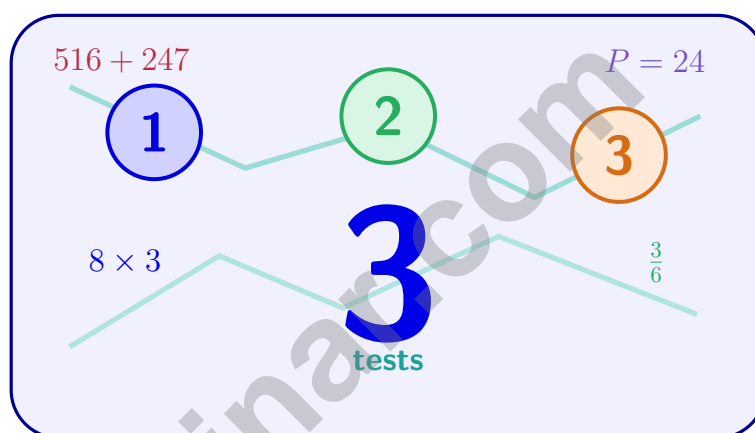
$$a^2 + b^2 = c^2$$

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



# 3 Maine Through Year Assessment Grade 4 Math Practice Tests

*Standards-Aligned Practice for Stronger Math Skills and Test Readiness*



Three 30-question trail tests packed with Grade 4 review, Maine Through Year Assessment strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

**Jay Daie and Reza Nazari**



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# Welcome, Maine Math Explorer!

Three steady rounds on the Pine Tree State math route

This book gives you three full Grade 3 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?

Three tests, 90 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 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	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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1) What is  $2,520 \div 7$ ?

A. 360

C. 350

B. 370

D. 340

2) Mia measures a piece of string as 8 decimeters long. How many centimeters is this?

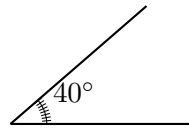
A. 0.8

C. 80

B. 8

D. 800

3)



An angle turns through 40 one-degree angles. What is the measure of this angle?

A.  $40^\circ$

C.  $39^\circ$

B.  $41^\circ$

D.  $80^\circ$

4) If you rotate a shape by  $45^\circ$ , what fraction of a full turn is this?

A.  $\frac{1}{8}$

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

B.  $\frac{1}{6}$

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

5) What is  $50,000 - 23,456$ ?

A. 26,544

C. 26,444

B. 27,544

D. 27,444



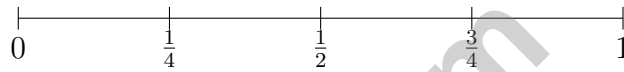
6) What is the value of the digit 5 in the number 5,204?

- A. 5                                       C. 500  
 B. 50                                       D. 5,000

7) A single muffin uses  $\frac{1}{5}$  cup of sugar. How much sugar is needed for 8 muffins?

- A.  $\frac{1}{40}$  cup                                       C.  $\frac{5}{8}$  cup  
 B.  $\frac{8}{5}$  cups                                       D.  $\frac{8}{40}$  cup

8) On the number line, which fraction is between  $\frac{1}{4}$  and  $\frac{3}{4}$ ?

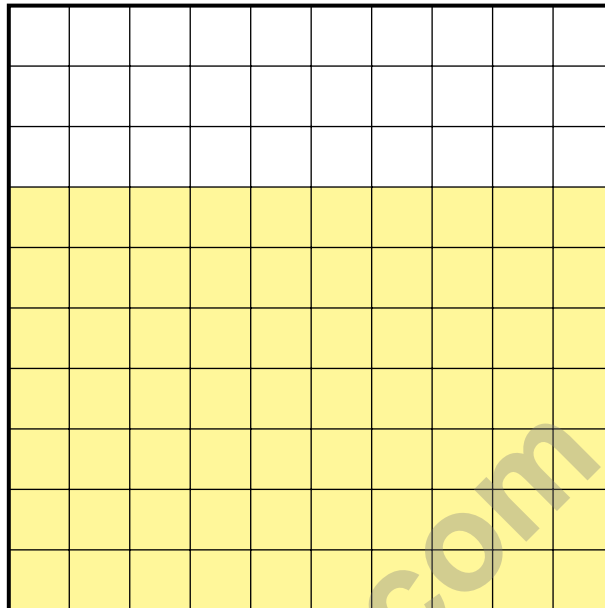


- A.  $\frac{1}{4}$                                        C.  $\frac{3}{4}$   
 B.  $\frac{1}{2}$                                        D. 1



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9) Decimal grids show place value. Which decimal matches the shaded grid?



Shaded: 70 out of 100

- A. 0.07
  - B. 0.70
  - C. 7.0
  - D. 0.77
- 10) A pizza box is a rectangle with a length of 14 inches and a width of 14 inches. What is the area of the box?
- A. 196 sq in
  - B. 228 sq in
  - C. 56 sq in
  - D. 28 sq in
- 11) Use the place-value chart to find the correct expansion of 214,537:

Hundred-Thousands	Ten-Thousands	Thousands	Hundreds	Tens	Ones
2	1	4	5	3	7

- A.  $200,000 + 10,000 + 4,000 + 50 + 30 + 7$
- B.  $2,000 + 1,000 + 4,000 + 500 + 30 + 7$
- C.  $200,000 + 140,000 + 537$
- D.  $200,000 + 10,000 + 4,000 + 500 + 30 + 7$



5) What is  $\frac{2}{5} + \frac{3}{5}$ ?

A.  $\frac{5}{10}$

B.  $\frac{1}{5}$

C.  $\frac{5}{5}$  or 1

D.  $\frac{6}{5}$

6) What number is equal to  $30,000 + 6,000 + 500 + 20 + 8$ ?

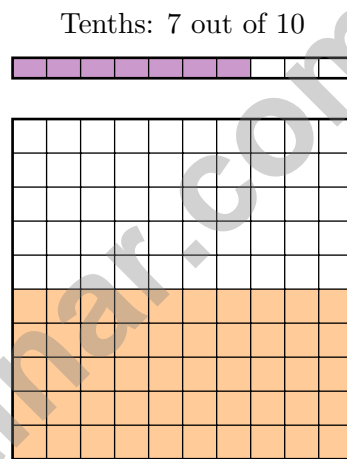
A. 36,285

B. 36,582

C. 36,258

D. 36,528

7) Compare using a tenths-hundredths model. Which is true?



A.  $\frac{7}{10} > \frac{50}{100}$

B.  $\frac{7}{10} < \frac{50}{100}$

C.  $\frac{7}{10} = \frac{50}{100}$

 D. Cannot be compared

8) A child spins a bottle. It rotates  $\frac{1}{9}$  of a full turn. How many degrees is this?

A.  $30^\circ$

B.  $35^\circ$

C.  $40^\circ$

D.  $45^\circ$



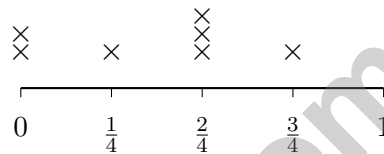
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1) Expand 2,814 using the place-value model:

Thousands	Hundreds	Tens	Ones
2	8	1	4

- A.  $2,000 + 8,000 + 14$ 
 C.  $2 + 8 + 1 + 4$   
 B.  $2,000 + 80 + 14$ 
 D.  $2,000 + 800 + 10 + 4$

2) Look at the line plot showing pencil lengths (in inches):



How many pencils measured  $\frac{2}{4}$  inch?

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

3)  $\frac{5}{6} = \frac{2}{6} + \underline{\hspace{1cm}}$ . The missing fraction is:

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

4) A bag of sugar weighs 25 ounces. A bag of flour weighs 32 ounces. How much more does the flour weigh?

- A. 7 ounces
  C. 25 ounces  
 B. 57 ounces
  D. 32 ounces



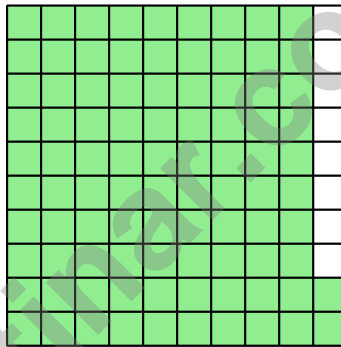
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5) A rectangle has a length of 12 m and a width of 7 m. What is its perimeter?

- A. 19 m                       C. 84 m  
 B. 38 m                       D. 76 m

6) A pattern starts at 2 and follows the rule add 5. What is the fifth term?

7) How many hundredths are shaded in this grid?



- A. 8 hundredths or 0.08                       C. 92 hundredths or 0.92  
 B. 80 hundredths or 0.80                       D. 20 hundredths or 0.20
- 8) Mia shared a string into 12 equal pieces. She used 9 pieces for a craft. Show this fraction as a sum of unit fractions.

- A. Nine copies of  $\frac{9}{9}$                        C. Twelve unit fractions of  $\frac{1}{12}$   
 B. Nine unit fractions of  $\frac{1}{9}$                        D. Nine unit fractions of  $\frac{1}{12}$



## 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 A is correct.** (4.NBT.B.6) Use long division:  $2 \div 7 = 0$  r2, bring down the 5 to get  $25 \div 7 = 3$  r4, bring down the 2 to get  $42 \div 7 = 6$ , bring down the 0 to get  $0 \div 7 = 0$ . The answer is **360**.
- Choice C is correct.** (4.MD.A.1) Since 1 decimeter = 10 centimeters, multiply:  $8 \times 10 = 80$  cm. The answer is **80** cm.
- Choice A is correct.** (4.MD.C.5) The measure of an angle equals the number of one-degree angles it turns through, so 40 one-degree angles equal  $40^\circ$ .
- Choice A is correct.** (4.MD.C.5) Divide the degrees by 360:  $\frac{45}{360} = \frac{1}{8}$  (simplifying by 45). Answer:  $\frac{1}{8}$ .
- Choice A is correct.** (4.NBT.B.4) Subtract from 50,000 using regrouping. The answer is **26,544**.
- Choice D is correct.** (4.NBT.A.1) The digit 5 is in the thousands place. Its value is  $5 \times 1,000 = 5,000$ . ✓
- Choice B is correct.** (4.NF.B.4) Eight muffins, each using  $\frac{1}{5}$  cup of sugar, need  $8 \times \frac{1}{5} = \frac{8}{5}$  cups of sugar.
- Choice B is correct.** (4.NF.A.1) On the number line,  $\frac{1}{2}$  is clearly marked between  $\frac{1}{4}$  and  $\frac{3}{4}$ .
- Choice B is correct.** (4.NF.C.5) The grid shows 70 shaded squares out of 100, which is seventy hundredths:  $0.70 = 0.7$ .
- Choice A is correct.** (4.MD.A.3) Pizza box area =  $14 \times 14 = 196$  sq in.
- Choice D is correct.** (4.NBT.A.2) From the chart: hundred-thousands:  $2 \rightarrow 200,000$ , ten-thousands:  $1 \rightarrow 10,000$ , thousands:  $4 \rightarrow 4,000$ , hundreds:  $5 \rightarrow 500$ , tens:  $3 \rightarrow 30$ , ones:  $7 \rightarrow 7$ . ✓
- Choice D is correct.** (4.NF.B.4) We take 3 copies of  $\frac{2}{6}$ . Multiply:  $3 \times \frac{2}{6} = \frac{3 \times 2}{6} = \frac{6}{6} = 1$ . The answer is **1**.
- Choice A is correct.** (4.NF.B.3) Top bar is full (one whole). Bottom bar shows  $\frac{3}{5}$  shaded. Together:  $1 + \frac{3}{5} = 1\frac{3}{5}$ . ✓
- Choice C is correct.** (4.OA.A.2) Ethan's group has 2 rows of 9 pencils—"2 times as many." Multiply:  $2 \times 9 = 18$  colored pencils.
- Choice D is correct.** (4.NBT.B.5) Break 18:  $36 \times (10 + 8) = 360 + 288 = 648$  square feet.
- Choice A is correct.** (4.NF.C.5) Tenths place has more weight than hundredths, so we always compare tenths first. Group by tenths: 0.1 and 0.15 start with 1 tenth (smaller group), while 0.5 and 0.51 start with 5 tenths (larger group). Within each group, compare hundredths:  $0.10 < 0.15$  and  $0.50 < 0.51$ . So the order from smallest to largest is 0.1, 0.15, 0.5, 0.51. ✓
- The correct answer is A, C.** (4.MD.C.7) B is wrong (straight angles can be divided). D is wrong (smaller angles combine to form a right angle). E is wrong ( $120^\circ \div 3 = 40^\circ$ , not  $30^\circ$ ).
- The correct answer is 4.** (4.G.A.2) Tick marks on all four sides of the figure show that all four sides have equal length. The answer is **4**.
- Choice A is correct.** (4.MD.C.5) In angle notation  $\angle YXZ$ , the middle letter names the vertex. The middle letter is X.
- Choice C is correct.** (4.NF.B.4) When we multiply by the numerator, we keep the denominator the same. So  $5 \times \frac{1}{4} = \frac{5}{4}$ .
- Choice C is correct.** (4.MD.B.4) Add up all the X marks:  $1 + 2 + 3 = 6$  X marks in total.
- 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 A is correct.** (4.NF.C.5) The number line from 0.30 to 0.35 divides into 5 equal steps. The mark is one step from 0.30, so it lands on 0.31.
- Choice D is correct.** (4.OA.B.4) Work backwards: if "add 3" gives 10, then the first term is  $10 - 3 = 7$ .
- Choice C is correct.** (4.OA.A.1) Read  $42 = 6 \times 7$  as "6 groups of 7." That matches "42 is 6 times as many as 7" (choice C). The other choices describe addition, not multiplication.
- The correct answer is  $1\frac{1}{5}$ .** (4.NF.B.3) The baker used some almonds from her supply. Subtract the amount used:  $3\frac{2}{5} - 2\frac{1}{5} = 1\frac{1}{5}$  pounds of almonds remain.
- Choice C is correct.** (4.NF.B.4) To find the missing number, think: How many copies of  $\frac{1}{5}$  do we need to make  $\frac{3}{5}$ ? We need 3 copies. So the equation is  $3 \times \frac{1}{5} = \frac{3}{5}$ .



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Captain's Log

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## Ahoy, Math Sailor!

◇ You sailed through 3 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

### Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

**Captain's tip:** on test day, sail steady. Trust the map you built through 3 practice tests. You will reach safe harbor!

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 Captain

# PRACTICE TODAY. SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect 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 TODAY.  
SUCCESS TOMORROW!

## 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.



### 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 & Decimals
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
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