

# 8

# Maine

## Through Year Assessment

# GRADE 4

# PRACTICE TESTS



1

5

$2 \times 3 = 6$

$2 \times 3 = 6$

3

2

4



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

**COMPREHENSIVE  
TEST PREP**

Includes Solutions

# 8 Maine Through Year Assessment Grade 4 Math Practice Tests

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



Eight 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!

Eight steady rounds on the Pine Tree State math route

This book gives you eight 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?

Eight tests, 240 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 6–8	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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For more practice  
& answers

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1) Which of the following equals  $\frac{11}{12}$ ?

A.  $11 + \frac{1}{12}$

B.  $11 \times \frac{1}{12}$

C.  $\frac{1}{11} \times 12$

D.  $\frac{12}{11}$

2) Is 19 prime or composite?

 A. Both B. Composite C. Neither D. Prime

3) Mia has 0.4 of a pizza. How can she write this as a fraction with denominator 10?

A.  $\frac{4}{100}$

B.  $\frac{4}{10}$

C.  $\frac{40}{100}$

D.  $\frac{4}{1000}$

4) Lily saw a pie divided into 9 equal slices. She took 4 slices. Which correctly shows this fraction as a sum of unit fractions?

A.  $\frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9}$

B.  $\frac{4}{9} + \frac{5}{9}$

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

D.  $\frac{9}{9}$

5) A sequence of multiples is:  $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, ?$ . Which is the next multiple?

A.  $\frac{3}{9}$

B.  $\frac{4}{8}$

C.  $\frac{3}{16}$

D.  $\frac{4}{16}$

6) A full rotation is  $360^\circ$ . If part of the rotation is  $215^\circ$ , what angle remains to complete the full rotation?

A.  $145^\circ$

B.  $215^\circ$

C.  $575^\circ$

D.  $180^\circ$



7) Add:  $\frac{1}{10} + \frac{45}{100}$ .

A.  $\frac{46}{100}$

B.  $\frac{46}{110}$

C.  $\frac{55}{100}$

D.  $\frac{1}{145}$

8) What is  $3,564 \div 6$ ?

A. 594

B. 604

C. 614

D. 584

9)  $\frac{8}{12} = \frac{5}{12} + \underline{\hspace{1cm}}$ . The missing fraction is:

A.  $\frac{1}{12}$

B.  $\frac{2}{12}$

C.  $\frac{3}{12}$

D.  $\frac{4}{12}$

10) Which multiplication problem has the product 156?

A.  $12 \times 12$

B.  $13 \times 13$

C.  $14 \times 12$

D.  $13 \times 12$

11) The trail to the tallest building in the city is 4 kilometers long. How many meters is this?

A. 400

B. 4,000

C. 40,000

D. 400,000

12) Which statement is true about a parallelogram?

 A. It has no parallel sides. B. It has two pairs of parallel sides. C. It has only one pair of parallel sides. D. It has four right angles.

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13) A baker uses  $\frac{5}{8}$  cup of flour for one batch. How much flour does he use for 3 batches?

- A.  $\frac{5}{24}$  cups                       C.  $\frac{15}{8}$  cups or  $1\frac{7}{8}$  cups  
 B.  $\frac{8}{5}$  cups                          D.  $\frac{3}{8}$  cups

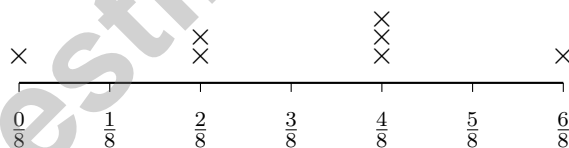
14) Select the **TWO** correct answers. Which regrouping statements are correct?

- A. When we add  $4,567 + 2,456$ , we regroup in the ones place because  $7 + 6 = 13$ .  
 B. When we subtract  $5,000 - 1,234$ , no regrouping is needed.  
 C. In  $6,234 + 1,567$ , we write 0 in the tens and carry 1 because  $3 + 6 = 9$ .  
 D. In  $8,000 - 2,345$ , we must regroup across zeros because we cannot subtract 5 from 0 in the ones place.  
 E. When  $7,123 - 2,456$ , we regroup the tens into ones because  $2 < 5$  in the tens place.

15) What rule describes this pattern? 12, 18, 24, 30, 36, ...

- A. Add 12                                  C. Multiply by 2  
 B. Add 8                                   D. Add 6 (multiples of 6)

16) Here is a line plot with measurements in eighths:



What fraction represents the difference between the longest and shortest measurements?

- A.  $\frac{2}{8}$                                           C.  $\frac{5}{8}$   
 B.  $\frac{4}{8}$                                           D.  $\frac{6}{8}$



1) Add:  $23,567 + 14,321 = ?$

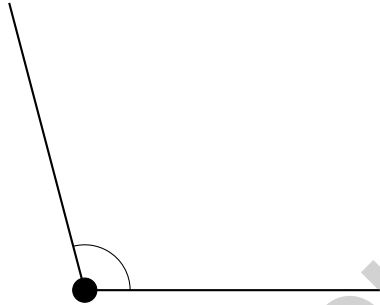
A. 37,888

C. 38,888

B. 37,878

D. 37,788

2)



Which statement about this angle is correct?

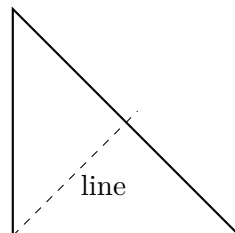
A. It is less than a right angle

C. It is more than a right angle but less than straight

B. It is a right angle

D. It is a straight angle

3) This is a right isosceles triangle (two equal legs). How many lines of symmetry does it have?



A. 0 lines

C. 2 lines

B. 1 line

D. 3 lines



4) Which numeral represents “three hundred seven thousand, four”?

- A. 370,040                       C. 30,704  
 B. 307,400                       D. 307,004

5) Which metric measurement is the longest?

- A. 2 kilometers                       C. 3,500 meters  
 B. 9,000 meters                       D. 15 kilometers

6) Mia buys 4 ribbons, each one-sixth of a yard long. How long are all the ribbons together?

- A.  $\frac{4}{6}$  yard                       C.  $\frac{1}{24}$  yard  
 B. 4 yards                       D.  $\frac{6}{4}$  yard



7)

What is the best estimate of the angle shown as Angle X?

- A. About 60 degrees                       C. About 90 degrees  
 B. About 75 degrees                       D. About 120 degrees

8) Ava has read  $\frac{7}{10}$  of her book. She read  $\frac{3}{10}$  on Monday and the rest on Tuesday. How much did she read on Tuesday?

- A.  $\frac{2}{10}$                        C.  $\frac{5}{10}$   
 B.  $\frac{4}{10}$                        D.  $\frac{10}{10}$



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& answers

1) Order these fractions from least to greatest:  $\frac{1}{6}$ ,  $\frac{5}{12}$ ,  $\frac{1}{2}$ .

A.  $\frac{1}{2}$ ,  $\frac{5}{12}$ ,  $\frac{1}{6}$

C.  $\frac{5}{12}$ ,  $\frac{1}{6}$ ,  $\frac{1}{2}$

B.  $\frac{1}{6}$ ,  $\frac{5}{12}$ ,  $\frac{1}{2}$

D.  $\frac{1}{2}$ ,  $\frac{1}{6}$ ,  $\frac{5}{12}$

2) How many multiples of 10 are there from 1 to 50?

A. 3

C. 5

B. 4

D. 6



One whole (4 fourths)

3)

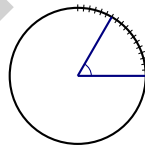
The bar shows  $\frac{2}{4}$  is shaded. If you have 3 such bars, how much is shaded in total?

A.  $\frac{6}{4}$  (or  $1\frac{1}{2}$ )

C.  $\frac{3}{4}$

B.  $\frac{2}{12}$

D.  $\frac{5}{4}$



4)

This diagram is marked from  $0^\circ$  to  $60^\circ$ . How many one-degree angles does the angle contain?

A. 60 one-degree angles

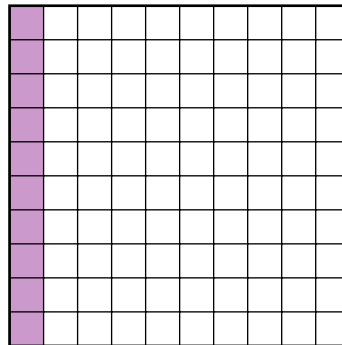
C. 59 one-degree angles

B. 61 one-degree angles

D. 30 one-degree angles



5) Ming shaded  $\frac{1}{10}$  of a rectangle. How many hundredths is this?



1 column shaded out of 10 columns

- A. 1 hundredth                       C. 100 hundredths  
 B. 10 hundredths                       D. 11 hundredths
- 6) Compare these two numbers using a place-value chart:

	Thousands	Hundreds	Tens	Ones
Number 1	3	4	2	5
Number 2	3	4	5	0

Which is correct?

- A.  $3,450 < 3,425$                        C.  $3,425 = 3,450$   
 B.  $3,425 > 3,450$                        D.  $3,425 < 3,450$
- 7) The pattern is: 2, 4, 8, 16, 32, ... What is the 7th term?

- A. 64     C. 256  
 B. 512     D. 128



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## 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 B is correct.** (4.NF.B.4) The fraction  $\frac{11}{12}$  tells us the numerator is 11 and the unit fraction is  $\frac{1}{12}$ . So we have 11 copies of  $\frac{1}{12}$ , or  $11 \times \frac{1}{12}$ .
- Choice D is correct.** (4.OA.B.4) Try the small primes: 19 is odd (not  $\div 2$ ); digits  $1 + 9 = 10$  (not  $\div 3$ ); doesn't end in 0 or 5 (not  $\div 5$ );  $7 \times 2 = 14$ ,  $7 \times 3 = 21$  (no 7). The only factors of 19 are 1 and 19 itself. *Exactly two factors = prime.*
- Choice B is correct.** (4.NF.C.5) 0.4 is zero point four, which is four tenths:  $0.4 = \frac{4}{10}$ . That's the answer Mia is looking for.
- Choice A is correct.** (4.NF.B.3) Lily took 4 slices out of 9 equal slices, which is  $\frac{4}{9}$ . Breaking it into unit fractions:  $\frac{4}{9} = \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9}$ —four unit fractions of ninths.
- Choice B is correct.** (4.NF.B.4) The pattern counts by eighths:  $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, \dots$ . So next is  $4 \times \frac{1}{8} = \frac{4}{8}$ .
- Choice A is correct.** (4.MD.C.7) A full rotation is  $360^\circ$ . Subtract what you've turned:  $360^\circ - 215^\circ = 145^\circ$ .
- Choice C is correct.** (4.NF.C.5) Convert  $\frac{1}{10}$  to hundredths:  $\frac{1}{10} = \frac{10}{100}$ . Now add the two fractions with the same denominator:  $\frac{10}{100} + \frac{45}{100} = \frac{55}{100}$ .
- Choice A is correct.** (4.NBT.B.6) Long division:  $3 \div 6 = 0$  r3, bring down the 5 to get  $35 \div 6 = 5$  r5, bring down the 6 to get  $56 \div 6 = 9$  r2, bring down the 4 to get  $24 \div 6 = 4$ . The quotient is **594**.
- Choice C is correct.** (4.NF.B.3) We have  $\frac{5}{12}$  and need to reach  $\frac{8}{12}$ . Missing:  $8 - 5 = 3$ , so the answer is  $\frac{3}{12}$  ✓.
- Choice D is correct.** (4.NBT.B.5) Break apart  $13 = 10 + 3$  and multiply:  $(10 \times 12) + (3 \times 12) = 120 + 36 = 156$ .
- Choice B is correct.** (4.MD.A.1) 1 kilometer = 1,000 meters. So  $4 \text{ km} = 4 \times 1,000 = 4,000 \text{ m}$ .
- Choice B is correct.** (4.G.A.2) A parallelogram has two pairs of opposite sides that are parallel to each other. This is the defining characteristic that distinguishes a parallelogram from trapezoids and other quadrilaterals. The answer is **B**.
- Choice C is correct.** (4.NF.B.4) The baker uses  $\frac{5}{8}$  cup for one batch, and makes 3 batches. Multiply:  $3 \times \frac{5}{8} = \frac{3 \times 5}{8} = \frac{15}{8} = 1\frac{7}{8}$  cups. The answer is  $1\frac{7}{8}$  cups.
- The correct answer is A, D.** (4.NBT.B.4) A: In  $4,567 + 2,456$ , since  $7 + 6 = 13$ , we regroup in ones ✓. B:  $5,000 - 1,234$  requires regrouping  $\times$ . C: In  $6,234 + 1,567$ , we write 2 in tens, not  $0 \times$ . D: In  $8,000 - 2,345$ , we must regroup across zeros ✓. E: False  $\times$ . Correct: A and D.
- Choice D is correct.** (4.OA.B.4) Check the differences:  $18 - 12 = 6$ ,  $24 - 18 = 6$ . Each increases by 6 (multiples of 6) ✓.
- Choice D is correct.** (4.MD.B.4) The shortest measurement is at  $\frac{0}{8}$  and the longest is at  $\frac{6}{8}$ . The difference is  $\frac{6}{8} - \frac{0}{8} = \frac{6}{8}$ .
- The correct answer is 0.** (4.MD.C.6) The first step in measuring an angle is to align one ray (the baseline ray) with the  $0^\circ$  mark on the protractor. This is your starting point for reading the second ray. The answer is **0** degrees.
- Choice D is correct.** (4.OA.A.2) Working backwards. The brother has 24 marbles, which is 3 times Grace's amount, so  $3 \times ? = 24$ . Divide to find Grace's amount:  $24 \div 3 = 8$  marbles.
- Choice C is correct.** (4.MD.A.2) Step 1: Sugar weight:  $5 \times 3 = 15$  kg. Step 2: Salt weight:  $3 \times 2 = 6$  kg. Step 3: Total:  $15 + 6 = 21$  kg. The total weight is **21** kg.
- Choice B is correct.** (4.MD.C.5) The blue label marks the vertex—the point where the two sides (rays) meet.
- Choice D is correct.** (4.NF.A.1) Multiply both top and bottom by 3:  $\frac{2}{5} = \frac{2 \times 3}{5 \times 3} = \frac{6}{15}$ .
- Choice A is correct.** (4.NF.A.1) Same numerator (2): smaller denominator means bigger pieces. Since  $3 < 5$ ,  $\frac{2}{3} > \frac{2}{5}$ . Rio's statement is correct!
- The correct answer is 12.** (4.G.A.1) Since  $T$  is between  $R$  and  $S$ , add the pieces:  $RS = RT + TS = 5 + 7 = 12$ .
- The correct answer is 6.** (4.G.A.3) For any regular polygon, the number of lines of symmetry equals the number of sides. A shape with 6 sides is a regular hexagon, which has exactly **6** lines of symmetry.
- Choice B is correct.** (4.NF.C.5) Rewrite 0.6 as 0.60 to match. Since  $60 < 68$  hundredths,  $0.6 < 0.68$ .
- Choice D is correct.** (4.NBT.A.1) Looking at the chart, the digit in the tens place is 7. Its value is  $7 \times 10 = 70$ . ✓



## Hi, Math Pilot!

◇ 8 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

### Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

**Pilot tip:** on test day, take off one problem at a time. Trust your training. You earned your wings!

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 Pilot

# 8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, 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 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.

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
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- ✓ And More!



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