

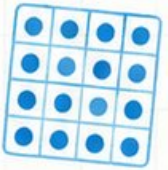
# 10

$$7 \times 8 = 56$$

$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$



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



# Maine Through Year Assessment GRADE 4 MATH



## PRACTICE TESTS

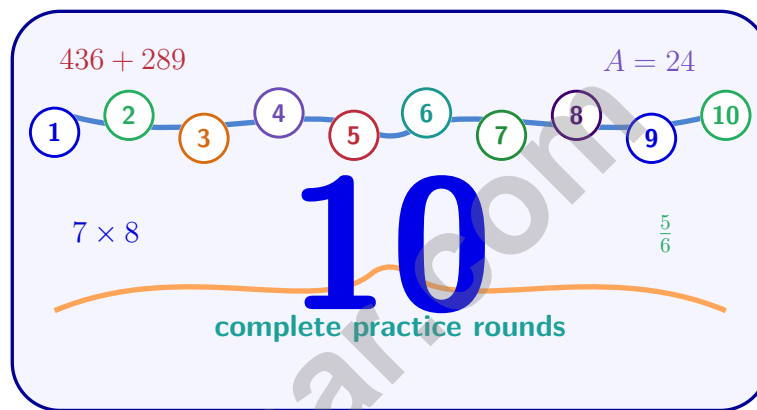
Standards-Aligned Review  
with Mixed Practice  
and **Answer Key**

$$\begin{array}{r} 476 \\ + 258 \\ \hline 734 \end{array}$$



# 10 Maine Through Year Assessment Grade 4 Math Practice Tests

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



Ten 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!

Ten steady rounds on the Pine Tree State math route

This book gives you ten 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?

Ten tests, 300 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 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Maine book.
Answer Pages	Compact keys and explanations that show why each answer works.

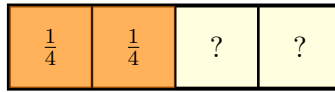
The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



Scan me!  
For more practice  
& answers

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1)

The bar shows  $\frac{2}{4}$  shaded. If you have 4 such bars, what is the total shaded amount?

A.  $\frac{8}{4}$  (or 2)

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

B.  $\frac{2}{16}$

D.  $\frac{6}{4}$

2) Which number has a 4 in the hundreds place? Use this expanded form reference:

Number	Thousands	Hundreds	Tens	Ones
Option A	2	4	1	5
Option B	4	2	1	5
Option C	1	2	4	5
Option D	2	5	4	1

A. 2,415

C. 1,245

B. 4,215

D. 2,541

3) What is  $5\frac{3}{10} - 2\frac{7}{10}$ ?

A.  $2\frac{4}{10}$

C.  $2\frac{6}{10}$

B.  $2\frac{5}{10}$

D.  $3\frac{2}{10}$

4) Noah wants to carpet his bedroom floor. The room is a rectangle that is 14 feet long and 10 feet wide. How many square feet of carpet does he need?

A. 24 sq ft

C. 140 sq ft

B. 48 sq ft

D. 280 sq ft





9) Round 34,750 to the nearest thousand.

10) A string is cut into 2 equal pieces. Both pieces are used. Which sum of unit fractions shows this?

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

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

C.  $\frac{2}{2}$

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

11) A plant's growth was measured five times in eighths:  $\frac{3}{8}$  in,  $\frac{5}{8}$  in,  $\frac{2}{8}$  in,  $\frac{5}{8}$  in,  $\frac{3}{8}$  in. What is the difference between the largest and smallest growth measurement?

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

B.  $\frac{2}{8}$  in

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

D.  $\frac{4}{8}$  in

12) The value of the digit 9 in the thousands place is how many times the value of the digit 9 in the hundreds place?

A. 1,000

B. 100

C. 9 times

D. 10

13) Ava has 8,234 stickers. She gives 2,456 stickers to her friend. How many stickers does Ava have left?

A. 5,778

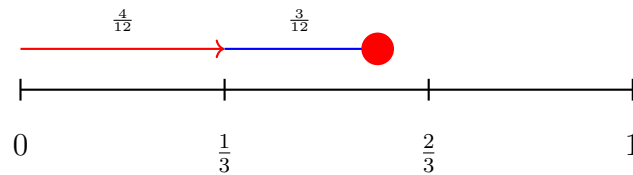
B. 5,678

C. 6,778

D. 6,678



- 1) A number line shows two jumps to reach  $\frac{7}{12}$ :



Which equation matches the two jumps shown?

- A.  $\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$ 
 C.  $\frac{6}{12} + \frac{1}{12} = \frac{7}{12}$   
 B.  $\frac{5}{12} + \frac{2}{12} = \frac{7}{12}$ 
 D.  $\frac{4}{12} + \frac{4}{12} = \frac{8}{12}$

- 2) A rectangular poster is 16 inches long and 10 inches wide. What is the area of the poster?

- A. 26 sq in
  C. 160 sq in  
 B. 52 sq in
  D. 180 sq in

3)



Which statement is true about this angle?

- A. It is larger than a right angle
  C. It is equal to a right angle  
 B. It is smaller than a right angle
  D. It is a straight angle



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4) In 78,401, what is the value of the digit 8?

5) What is  $\frac{7}{12} + \frac{2}{12}$ ?

- A.  $\frac{9}{24}$   
 B.  $\frac{9}{12}$

- C.  $\frac{14}{12}$   
 D.  $\frac{5}{12}$

6) Which attribute describes a rhombus but is not true for all rectangles?

- A. Four sides  
 B. Two pairs of parallel sides

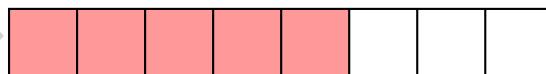
- C. All sides are equal in length  
 D. Four right angles

7) A line plot shows data with halves. At  $\frac{1}{2}$  there are 2 X marks, at 1 there are 4 X marks, and at  $\frac{3}{2}$  there is 1 X mark. How many X marks in total?

- A. 5  
 B. 6

- C. 7  
 D. 8

8) A rectangle is divided into 8 equal columns. 5 columns are painted red. Show the red fraction as a sum of unit fractions.



5 red columns out of 8

- A.  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$   
 B.  $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

- C. 5 parts of 5  
 D.  $\frac{5}{5}$



1) Which decimal is greatest?

A. 0.19

C. 0.11

B. 0.91

D. 0.99

2) A pitcher holds 64 fluid ounces. How many pints is this?

A. 2

C. 8

B. 4

D. 16

3) Estimate first, then find the exact answer:  $48,765 + 31,234 = ?$

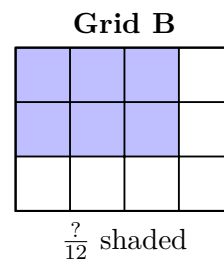
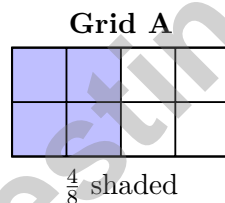
A. 79,999

C. 79,899

B. 80,000

D. 80,099

4) Look at the grid models below. Both grids show equivalent shaded regions. Which fraction should replace the question mark?



A.  $\frac{6}{12}$

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

B.  $\frac{8}{12}$

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



5) A fish tank requires 3 liters of water per day to stay clean. How many liters are needed for 5 days?

A. 8 L

C. 2 L

B. 15 L

D. 3 L

6) A line plot shows leaf lengths in halves of an inch:  $\frac{1}{2}$ ,  $\frac{1}{2}$ , 1,  $\frac{1}{2}$ , 1, 1. How many leaves measured 1 inch?

A. 1

C. 3

B. 2

D. 4

7) Mia watches the hour hand on a clock move from 2 to 5. How many degrees does it move?

8) In the number 3,456, the digit 5 is in which place?

A. Ones place

C. Hundreds place

B. Thousands place

D. Tens place

9) Zoe ate  $\frac{2}{10}$  of a pizza and her brother ate  $\frac{1}{5}$  of the same pizza. Who ate more?

A. Zoe ate more

C. They ate the same amount

B. Her brother ate more

D. Cannot determine



Scan me!  
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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

- Choice A is correct.** (4.NF.B.4) With 4 bars, each showing  $\frac{2}{4}$  shaded, we have  $4 \times \frac{2}{4} = \frac{8}{4} = 2$  shaded in total.
- Choice A is correct.** (4.NBT.A.2) Looking at the table, the hundreds column shows 4 for Option A, which gives 2,415 ✓
- Choice C is correct.** (4.NF.B.3) Since  $\frac{3}{10} < \frac{7}{10}$ , regroup:  $5\frac{3}{10} = 4\frac{13}{10}$ . Subtract:  $4\frac{13}{10} - 2\frac{7}{10} = 2\frac{6}{10}$ .
- Choice C is correct.** (4.MD.A.3) Carpet needed =  $14 \times 10 = 140$  sq ft.
- Choice D is correct.** (4.OA.A.3) Three steps! Step 1: books from the boxes:  $5 \times 20 = 100$ . Step 2: add the loose books:  $100 + 15 = 115$ . Step 3: subtract the shelved ones:  $115 - 45 = 70$  books left.
- Choice C is correct.** (4.NF.B.4) Four tiles, each  $\frac{1}{6}$ , combine to make  $4 \times \frac{1}{6} = \frac{4}{6}$ .
- The correct answer is 7.** (4.OA.A.2) The school's 28 basketballs are 4 times the soccer balls. To find the smaller amount, divide:  $28 \div 4 = 7$  soccer balls.
- Choice C is correct.** (4.MD.C.5) An obtuse angle opens wider than a right angle but is not a straight line.
- The correct answer is 35,000.** (4.NBT.A.3) We're rounding to the nearest thousand. The hundreds digit is  $7 \geq 5$ , so round UP from 34,000 to **35,000**. ✓
- Choice A is correct.** (4.NF.B.3) Both pieces are used out of 2 equal pieces, which is  $\frac{2}{2}$ . As a sum of unit fractions:  $\frac{1}{2} + \frac{1}{2}$ .
- Choice C is correct.** (4.MD.B.4) The largest measurement is  $\frac{5}{8}$  in and the smallest is  $\frac{2}{8}$  in. The difference is  $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$  in.
- Choice D is correct.** (4.NBT.A.1) A digit in the thousands place is worth digit  $\times 1,000$ ; in the hundreds place, it's worth digit  $\times 100$ . The ratio is  $1,000 \div 100 = 10$ . ✓
- Choice A is correct.** (4.NBT.B.4) This word problem asks us to find how many are left, so we subtract.  $8,234 - 2,456 = 5,778$  stickers.
- Choice C is correct.** (4.MD.A.1) 1 kilogram = 1,000 grams. So  $6 \text{ kg} = 6 \times 1,000 = 6,000$  g.
- Choice D is correct.** (4.OA.B.4) Add the two previous terms: Start with 3, 4. Then  $3 + 4 = 7$ ,  $4 + 7 = 11$ ,  $7 + 11 = 18$ . The 5th term is **18**.
- The correct answer is A, C.** (4.NF.B.4) A means "6 copies of  $\frac{1}{8}$ ", which is  $\frac{6}{8}$ . C also means "6 copies of  $\frac{1}{8}$ ", just written in words. Both are correct. B and D would give  $\frac{8}{8}$  (too many). E is subtraction.
- The correct answer is  $\frac{1}{2}$ .** (4.NF.B.3) Mia started with  $\frac{9}{10}$  gallon of paint and used  $\frac{4}{10}$ . What's left:  $9 - 4 = 5$  tenths, or  $\frac{5}{10}$  (which simplifies to  $\frac{1}{2}$ ).
- Choice C is correct.** (4.MD.C.7) These adjacent angles are supplementary. Add them:  $63^\circ + 117^\circ = 180^\circ$ .
- Choice A is correct.** (4.NF.C.5) 0.80 has 8 tenths, while 0.08 has 0 tenths (just 8 hundredths). Since 8 tenths  $>$  0 tenths,  $0.80 > 0.08$ . Socks cost more.
- Choice A is correct.** (4.NF.C.5) First, convert  $\frac{3}{10} = \frac{30}{100}$ . Then:  $\frac{30}{100} + \frac{?}{100} = \frac{50}{100}$  tells us the missing number is 20.
- Choice B is correct.** (4.G.A.1) Perpendicular lines are special because they always cross at exactly  $90^\circ$  — a perfect right angle. That little square symbol shows you where they meet.
- Choice A is correct.** (4.G.A.2) The purple arrows indicate which sides are parallel. The arrows on the top and bottom sides show they are parallel to each other. The answer is **A**.
- Choice A is correct.** (4.NBT.B.5) An area model splits  $31 = 30 + 1$  and  $17 = 10 + 7$ . Choice A shows these decompositions correctly.
- Choice D is correct.** (4.OA.A.1) We know the larger amount is 5 oak trees, and that's 5 times the maple trees. To find the smaller amount, divide:  $5 \div 5 = 1$  maple tree.
- Choice A is correct.** (4.NF.A.1) Find common denominator 12:  $\frac{5}{6} = \frac{10}{12}$  and  $\frac{3}{4} = \frac{9}{12}$ . Since  $\frac{10}{12} > \frac{9}{12}$ , Noah used more paint.
- Choice C is correct.** (4.MD.C.6) The second ray points directly to the  $135^\circ$  mark on the scale. Since  $135^\circ$  sits between the  $90^\circ$  and  $180^\circ$  benchmarks, it's obtuse. The answer is **135** degrees.



## Hi, Math Pilot!

◇ 10 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

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