

8

Massachusetts

MCAS

GRADE 4

PRACTICE TESTS



1

$$2 \times 3 = 6$$

3

5

$$2 \times 3 = 6$$

2

4



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

**COMPREHENSIVE
TEST PREP**

Includes Solutions

8 Massachusetts MCAS Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight complete 30-question Grade 4 practice rounds for MCAS, built around historic streets, harbor winds, and precise explanations, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Welcome, Massachusetts Math Explorer!

Eight steady rounds on the Bay State math route

This book gives you eight full Grade 4 practice tests for MCAS. Each round uses historic streets, harbor winds, and precise explanations to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Massachusetts 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 Massachusetts MCAS 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 Bay 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 MCAS 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.



Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	27
★ Practice Test 3	_____	39
★ Practice Test 4	_____	50
★ Practice Test 5	_____	61
★ Practice Test 6	_____	72
★ Practice Test 7	_____	84
★ Practice Test 8	_____	95
Practice Test Answer Keys	_____	105
Practice Test Answers and Explanations	_____	106

1) What number is $100,000 + 20,000 + 3,000 + 0 + 50 + 0$?

A. 123,500

C. 123,050

B. 102,350

D. 120,350

2) Mia shaded $\frac{1}{8}$ on three different fraction bars. What is the total shaded?

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

C. $\frac{3}{24}$

B. $\frac{3}{8}$

D. $\frac{1}{24}$

3) A soccer team won some games. Another team won 4 times as many games, and that team won 32 games. How many games did the first team win?

A. 4

C. 28

B. 36

D. 8

4) Complete the number sentence: $\frac{3}{5} = \frac{?}{15}$

5) A spinner is divided into 6 equal sectors around a center point. Each sector spans how many degrees?



Scan me!
For more practice
& answers

6) Which statement is true?

- A. Parallel lines always meet at right angles
- B. Perpendicular lines meet at right angles
- C. Parallel lines are the same as perpendicular lines
- D. Perpendicular lines never meet

Classroom Supplies

Grade	Books
Grade 3	18
Grade 4	24
Grade 5	30

7)

The table shows books in each grade. If they combine all books and divide equally among 9 classrooms, how many books does each classroom get?

- A. 7
- B. 9
- C. 8
- D. 6
- 8) A bathtub contains 120 fluid ounces of water. How many cups is this?
- A. 15
- B. 30
- C. 60
- D. 240
- 9) If an angle measures 55° , how many one-degree angles make it?
- A. 5.5 one-degree angles
- B. 55 one-degree angles
- C. 110 one-degree angles
- D. 550 one-degree angles



10) What is $6,001 - 2,345$?

A. 3,656

C. 4,656

B. 3,756

D. 3,556

11) Which number sentence is true?

A. $2 \times \frac{1}{5} = \frac{1}{10}$

C. $4 \times \frac{1}{5} = \frac{4}{20}$

B. $3 \times \frac{1}{5} = \frac{3}{5}$

D. $5 \times \frac{1}{5} = \frac{1}{5}$

12) A farmer has 8,254 apples. Round to the nearest hundred.

A. 8,200

C. 8,300

B. 8,250

D. 8,000

13) What is $2,432 \div 8$?

A. 304

C. 324

B. 314

D. 334

14) Ava ran 0.3 kilometers and then 0.5 kilometers. How far did she run in total?

A. 0.2 km

C. 0.35 km

B. 0.8 km

D. 1.0 km

15) *Select the TWO correct answers.*

A garden project uses two flower sections. Rose garden: $2\frac{1}{3}$ square meters. Tulip garden: $1\frac{2}{3}$ square meters. Which statements correctly describe the total and difference?

 A. The combined area is $3\frac{3}{3}$ or 4 square meters. B. The combined area is $3\frac{1}{3}$ square meters. C. The rose garden is $\frac{2}{3}$ square meter larger than the tulip garden. D. The rose garden is $1\frac{1}{3}$ square meters larger than the tulip garden. E. The difference between the two gardens is $\frac{1}{3}$ square meter.

Scan me!
For more practice
& answers

1) What is $9,876 - 5,432$?

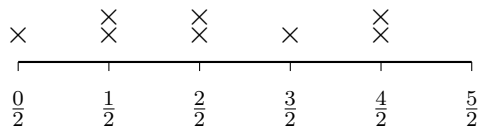
A. 4,344

C. 5,444

B. 4,434

D. 4,444

2) Look at this line plot with halves:



How many data points have a value of 1 inch or less?

A. 3

C. 5

B. 4

D. 6

3) If an angle has 38 one-degree angles, what is its measure?

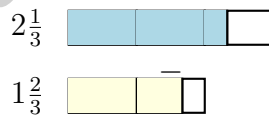
A. 38°

C. 76°

B. 19°

D. 380°

4)



Using the bar models shown, what is $2\frac{1}{3} - 1\frac{2}{3}$?

A. $\frac{2}{3}$

C. 1

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

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

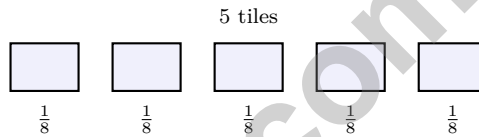
5) Which of the following does **not** have at least one line of symmetry?

- A. Right isosceles triangle C. Scalene right triangle
 B. Equilateral triangle D. Isosceles trapezoid

6) A student folds a piece of paper creating a crease. The angle on one side of the crease is 67° . If the total angle formed is 134° , what is the angle on the other side?

- A. 67° C. 201°
 B. 68° D. 134°

7) A model shows 5 unit-fraction tiles. Each tile is $\frac{1}{8}$. What is the total?



- A. $\frac{1}{8}$ C. $\frac{5}{8}$
 B. $\frac{3}{8}$ D. $\frac{8}{5}$

8) Compare the angles shown. Which statement is true?

Angle A



Angle B

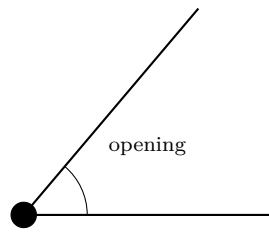


- A. Angle A is larger than Angle B D. Cannot be determined from the diagram
 B. Angle B is larger than Angle A
 C. Both angles are equal



Scan me!
For more practice
& answers

1)



The angle shown has a small opening. If we increased the opening to 130 degrees, would it be acute, right, obtuse, or straight?

- A. Acute C. Obtuse
 B. Right D. Straight

2) Which pattern shows all multiples of 4?

- A. 4, 8, 10, 16, 20 C. 4, 8, 12, 16, 20
 B. 2, 4, 6, 8, 10 D. 3, 6, 9, 12, 15

3)

$$\begin{array}{r}
 2,347 \\
 +3,285 \\
 \hline
 \end{array}$$

↗ Carry 1
 ↘ Add ones: $7 + 5 = 12$

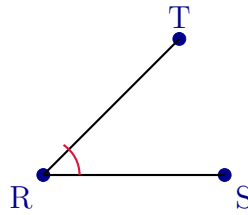
What is the sum $2,347 + 3,285$?

- A. 5,632 C. 5,542
 B. 5,722 D. 5,742



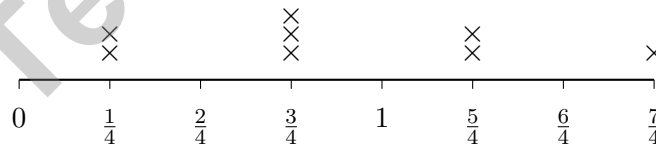
Scan me!
For more practice
& answers

4) Look at this diagram:



Using three points, how would you name the angle shown by the red arc?

- A. Angle S
 C. Angle ST
 B. Angle TRS
 D. Angle R
- 5) Which expanded form equals 0.34?
- A. $0.3 + 0.4$
 C. $3 + 0.4$
 B. $0.3 + 0.04$
 D. $3 + 4$
- 6) Noah's classroom aquarium holds 36 quarts of water. How many gallons is this?
- A. 4
 C. 12
 B. 9
 D. 18
- 7) Here is a line plot with fourths:



How many X marks are at measurements that are exactly $\frac{3}{4}$ inch or greater?

- A. 3
 C. 5
 B. 4
 D. 6



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.

Testinar.com



Scan me!
For more practice
& answers

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice C is correct.** **(4.NBT.A.2)** Step 1: $100,000 + 20,000 + 3,000 = 123,000$. Step 2: $123,000 + 50 = 123,050$ ✓
- Choice B is correct.** **(4.NF.B.4)** Adding three eighths together: $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} = 3 \times \frac{1}{8} = \frac{3}{8}$.
- Choice D is correct.** **(4.OA.A.2)** Working backwards. The other team won 32 games, which is 4 times the first team's wins, so $4 \times ? = 32$. Divide to find the first team: $32 \div 4 = 8$ games.
- The correct answer is 9.** **(4.NF.A.1)** The denominator changes from 5 to 15. What times 5 makes 15? $5 \times 3 = 15$. So multiply the numerator by 3: $3 \times 3 = 9$.
- The correct answer is 60.** **(4.MD.C.5)** Divide 360 degrees by 6 equal sectors: $360^\circ \div 6 = 60^\circ$ per sector.
- Choice B is correct.** **(4.G.A.1)** Perpendicular lines cross each other at exactly 90° , while parallel lines never cross at all — they stay side by side forever.
- Choice C is correct.** **(4.OA.A.3)** Read the table for the totals, then combine. Step 1: $18 + 24 + 30 = 72$ books in all. Step 2: share among 9 classrooms: $72 \div 9 = 8$ books each.
- Choice A is correct.** **(4.MD.A.1)** Since 1 cup = 8 fluid ounces, divide: $120 \div 8 = 15$ cups. The answer is **15** cups.
- Choice B is correct.** **(4.MD.C.5)** When an angle measures 55° , it is made of **55** one-degree angles.
- Choice A is correct.** **(4.NBT.B.4)** Subtracting from 6,001 requires regrouping across the two middle zeros. Ones: $1 < 5$, borrow from the tens—but the tens and hundreds are both 0, so borrow chains all the way to the thousands ($6 \rightarrow 5$). The two 0s become 9s; the ones becomes 11. Now: $11 - 5 = 6$, $9 - 4 = 5$, $9 - 3 = 6$, $5 - 2 = 3$. Result: **3,656**. ✓
- Choice B is correct.** **(4.NF.B.4)** Let's check each one: A: $2 \times \frac{1}{5} = \frac{2}{5}$, not $\frac{1}{10}$. B: $3 \times \frac{1}{5} = \frac{3}{5}$ ✓. C: $4 \times \frac{1}{5} = \frac{4}{5}$, not $\frac{4}{20}$. D: $5 \times \frac{1}{5} = 1$, not $\frac{1}{5}$.
- Choice C is correct.** **(4.NBT.A.3)** We're rounding to the nearest hundred. Look at the tens digit: 5. Since $5 \geq 5$, we round UP! The hundreds digit changes from 2 to 3, so the farmer has about **8,300** apples. ✓
- Choice A is correct.** **(4.NBT.B.6)** Long division: $2 \div 8 = 0$ r2, bring down the 4 to get $24 \div 8 = 3$, bring down the 3 to get $3 \div 8 = 0$ r3, bring down the 2 to get $32 \div 8 = 4$. The answer is **304**.
- Choice B is correct.** **(4.NF.C.5)** Add the two decimals: $0.3 + 0.5 = 0.8$ kilometers.
- The correct answer is A, C.** **(4.NF.B.3)** Let's check each statement. Step 1 (for A and C): Add the garden areas: $2\frac{1}{3} + 1\frac{2}{3} = 3\frac{3}{3} = 4$ square meters (A is correct). Find the difference: $2\frac{1}{3} - 1\frac{2}{3} = \frac{2}{3}$ square meter more rose garden (C is correct). Step 2 (why others fail): B claims $3\frac{1}{3}$, but we got 4. D claims $1\frac{1}{3}$, but the difference is $\frac{2}{3}$. E claims $\frac{1}{3}$, but the actual difference is $\frac{2}{3}$.
- Choice C is correct.** **(4.MD.C.5)** An obtuse angle opens wider than a right angle.
- Choice B is correct.** **(4.G.A.2)** Shape 2 has exactly one pair of parallel sides marked by red arrows, which defines a trapezoid. Shape 1 shows two pairs of parallel sides (blue and blue), making it a parallelogram. The answer is **B**.
- Choice D is correct.** **(4.OA.A.1)** "5 times as many" tells us to multiply. Priya's brother has $3 \times 5 = 15$ coins.
- Choice A is correct.** **(4.NF.C.5)** Count the shaded squares: Grid 1 has 43 hundredths and Grid 2 has 34 hundredths. Since $43 > 34$, $0.43 > 0.34$.
- Choice C is correct.** **(4.NF.A.1)** Same denominator, so compare numerators: $4 < 8$ means $\frac{4}{10} < \frac{8}{10}$.
- Choice D is correct.** **(4.NF.B.4)** A: $4 \times \frac{1}{2} = \frac{4}{2} = 2$ ✓. B: $6 \times \frac{1}{3} = \frac{6}{3} = 2$ ✓. C: $3 \times \frac{2}{3} = \frac{6}{3} = 2$ ✓. D: $5 \times \frac{1}{2} = \frac{5}{2} = 2\frac{1}{2}$ (NOT 2). The answer is **D**.
- Choice C is correct.** **(4.OA.B.4)** Divisibility rule for 3: *add the digits*; if the sum divides by 3, the number does too. For 57: $5 + 7 = 12$, and $12 \div 3 = 4$. So $57 \div 3 = 19$. The others fail the digit-sum test: $37 \rightarrow 10$, $44 \rightarrow 8$, $62 \rightarrow 8$.
- Choice C is correct.** **(4.G.A.3)** A non-square rhombus has a "diamond" shape that balances along both diagonals. Each diagonal splits it into two matching triangles. The answer is **2** lines of symmetry.
- Choice A is correct.** **(4.NF.B.3)** Ming's ribbon started at $\frac{5}{8}$ meter. She cut off $\frac{3}{8}$ meter, leaving $5 - 3 = 2$ eighths: $\frac{2}{8}$ meter.
- Choice B is correct.** **(4.MD.C.6)** The ray points to the 175° mark, which is just 5° short of a straight angle (180°). This is a very wide obtuse angle. The answer is **175** degrees.
- 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. ✓



From Your Math Family

Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 8 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

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

Jay Daie

Your Math Family

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
- ✓ Mathematical Reasoning
- ✓ And More!



Visit testinar.com/math4 for additional Grade 4 math resources and practice materials.

MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.

A COMPLETE
PRACTICE EXPERIENCE
TO HELP STUDENTS THRIVE!



Builds Confidence Through Practice



Strengthens Critical Thinking & Problem Solving



Encourages Independent Learning



Prepares Students for Future Success