

9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

Massachusetts MCAS

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**9 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
BUILD SKILLS & CONFIDENCE**



**ANSWER KEY
FOR ALL TESTS**



$$\frac{3}{4} + \frac{1}{4} = 1$$



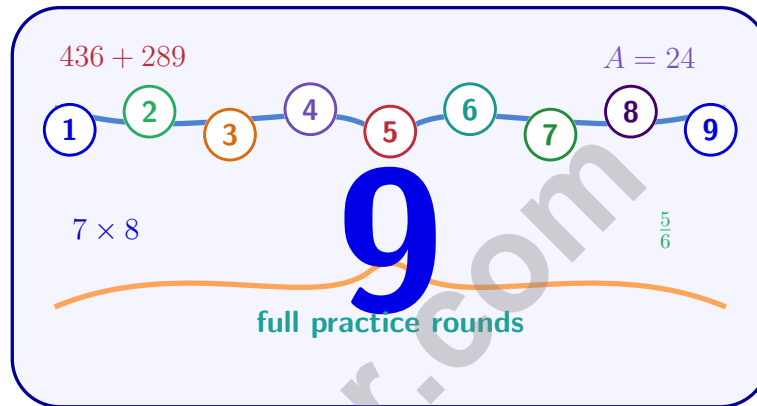
$$725 - 358 = 367$$

PREPARE
PRACTICE
SUCCEED
PERFORM

**PRACTICE TODAY.
SUCCEED TOMORROW.**

9 Massachusetts MCAS Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine 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



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Welcome, Massachusetts Math Explorer!

Nine steady rounds on the Bay State math route

This book gives you nine 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?

Nine tests, 270 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 7–9	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.

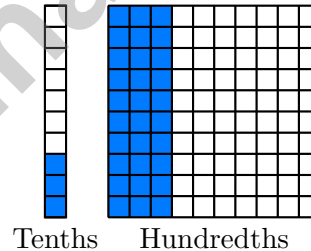


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Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	26
★ Practice Test 3	_____	38
★ Practice Test 4	_____	49
★ Practice Test 5	_____	60
★ Practice Test 6	_____	71
★ Practice Test 7	_____	82
★ Practice Test 8	_____	93
★ Practice Test 9	_____	104
Practice Test Answer Keys	_____	115
Practice Test Answers and Explanations	_____	121

- 1) A toy store has 45 toy cars. They receive 15 more cars. Then they sell 20 cars. How many cars are left?
- A. 30 C. 25
 B. 35 D. 40
- 2) The letter *M* has how many lines of symmetry?
- A. 0 C. 2
 B. 1 D. 3
- 3) Round 5,196 to the nearest ten.
- A. 5,190 C. 5,196
 B. 5,100 D. 5,200
- 4) Look at these two grids. Which decimal represents both shaded regions?



- A. 0.03 C. 3.0
 B. 0.30 D. 0.003



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5) Two jars of jam are the same size. One jar is $\frac{3}{4}$ full, and another is $\frac{4}{5}$ full. Which jar is more full?

A. The first jar ($\frac{3}{4}$)

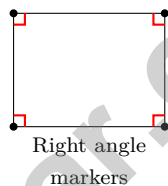
C. Both are equally full

B. The second jar ($\frac{4}{5}$)

D. Cannot determine

6) Write 0.42 as a fraction with denominator 100.

7) Look at this shape with right angle markers. How many right angles does it have?



A. One right angle

C. Three right angles

B. Two right angles

D. Four right angles

8) 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. $\frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9}$

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

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

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



- 9) Dakota has 32 beads. Dakota has 4 times as many beads as Ryan. How many beads does Ryan have?

- 10) Which fraction is equivalent to a shaded amount of $\frac{20}{100}$?

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

C. $\frac{200}{100}$

B. $\frac{20}{10}$

D. $\frac{20}{200}$

- 11) A clock hand rotates from 12 o'clock to 3 o'clock (a 90° rotation), then continues to rotate an additional 45° . What is the total angle of rotation?

12)



Ava measures an angle and gets a reading very close to 90 degrees. Is this angle acute, right, or obtuse?

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

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1) What is $\frac{3}{8} + \frac{2}{8}$?

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

- C. $\frac{5}{16}$
 D. $\frac{6}{8}$

2) A candy shop sells 3 large bags of candy. Each bag weighs 16 ounces. How many ounces is that total? If they sell for \$4 per bag, how much money do they make?

- A. 13 ounces and \$10
 B. 16 ounces and \$12

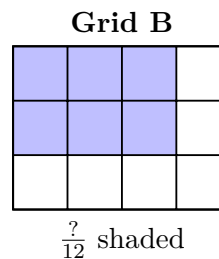
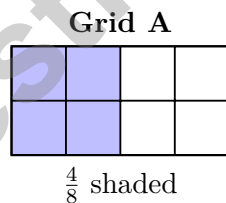
- C. 48 ounces and \$16
 D. 48 ounces and \$12

3) Ming's bookshelf is a rectangle. It is 16 inches long and 12 inches wide. What is the area of the bookshelf?

- A. 192 sq in
 B. 56 sq in

- C. 28 sq in
 D. 256 sq in

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



- A. $\frac{6}{12}$
 B. $\frac{8}{12}$

- C. $\frac{4}{12}$
 D. $\frac{3}{12}$



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5) A hiking trail is 8 kilometers long. Convert this distance to meters.

6) A baker has $3\frac{2}{5}$ pounds of almonds. She uses $2\frac{1}{5}$ pounds in a recipe. How many pounds of almonds are left?

7) Liam starts his homework at 3:15 p.m. and finishes at 4:45 p.m. How much time did he spend on homework?

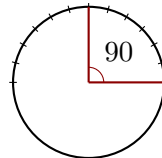
A. 30 minutes

C. 60 minutes

B. 45 minutes

D. 90 minutes

8)



The angle shown is a right angle with degree tick marks. How many one-degree angles form a right angle?

A. 45 one-degree angles

C. 180 one-degree angles

B. 90 one-degree angles

D. 360 one-degree angles



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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 D is correct.** (4.OA.A.3) Two steps! Step 1: add the new cars: $45 + 15 = 60$ cars. Step 2: take away the ones sold: $60 - 20 = 40$ cars left.
- Choice B is correct.** (4.G.A.3) The letter M has two humps (peaks) that are exactly the same height and shape. A vertical line down the middle divides it into matching left and right halves. The answer is **1** line of symmetry.
- Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest ten. Look at the ones digit: 6. Since $6 \geq 5$, we round UP! The tens digit goes from 9 to 10—a rollover! So the answer is **5,200**. ✓
- Choice B is correct.** (4.NF.C.5) Both pictures display the same amount: 3 tenths or 30 hundredths. So $\frac{3}{10} = \frac{30}{100} = 0.30 = 0.3$.
- Choice B is correct.** (4.NF.A.1) Find common denominators: $\frac{3}{4} = \frac{15}{20}$ and $\frac{4}{5} = \frac{16}{20}$. Since $\frac{16}{20} > \frac{15}{20}$, the second jar is more full.
- The correct answer is $\frac{42}{100}$.** (4.NF.C.5) The decimal 0.42 means 42 hundredths, so the fraction is $\frac{42}{100}$.
- Choice D is correct.** (4.G.A.2) Right angle markers at all four corners show that this figure has four right angles. A quadrilateral with four right angles is a rectangle. The answer is **D**.
- 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.
- The correct answer is 8.** (4.OA.A.2) Dakota's 32 beads are 4 times Ryan's amount. To find Ryan's, divide: $32 \div 4 = 8$ beads.
- Choice A is correct.** (4.NF.C.5) We can simplify $\frac{20}{100}$ by dividing both numerator and denominator by 10: $\frac{20}{100} = \frac{2}{10}$.
- The correct answer is 135.** (4.MD.C.7) The hand rotates in two steps. Add both angles: $90^\circ + 45^\circ = 135^\circ$.
- Choice B is correct.** (4.MD.C.6) Ava's reading of about 85° is less than 90° , which makes it acute—even though it's close to a right angle. Remember: a right angle must be exactly 90° , not just close. The answer is acute.
- Choice B is correct.** (4.NF.B.3) The pie chart shows three slices: yellow ($\frac{3}{12}$), orange ($\frac{4}{12}$), and red ($\frac{5}{12}$). Add them all: $3 + 4 + 5 = 12$ twelfths = **1** whole pie.
- Choice C is correct.** (4.NF.B.3) Add the wholes: $3 + 1 = 4$. Add the fractions: $\frac{1}{3} + \frac{2}{3} = \frac{3}{3} = 1$. Combine: $4 + 1 = 5$ meters.
- Choice A is correct.** (4.NF.B.3) A unit fraction has numerator 1. The farmer uses 4 plots, so we need four $\frac{1}{6}$ pieces: $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$. ✓
- Choice C is correct.** (4.NBT.A.1) Read the value backwards: $600 = 6 \times 100$. A digit's value equals digit \times place value. Since the place value here is 100, the digit must be in the hundreds place. *Quick check:* the places are ones ($\times 1$), tens ($\times 10$), hundreds ($\times 100$), thousands ($\times 1,000$). ✓
- Choice A is correct.** (4.NF.B.4) Noah walks $\frac{2}{8}$ mile per day for 4 days. Multiply: $4 \times \frac{2}{8} = \frac{4 \times 2}{8} = \frac{8}{8} = 1$ mile. The answer is **1** mile.
- The correct answer is A, C.** (4.G.A.1) Angle 1 opens just a little (about 35°), making it acute. Angle 2 has that perfect right angle marker, so it's 90° . They're definitely not equal to each other!
- Choice D is correct.** (4.OA.B.4) First find the rule by looking at the gaps: $6 - 2 = 4$, $10 - 6 = 4$, $14 - 10 = 4$, $18 - 14 = 4$. So the rule is "add 4." Apply it once more: $18 + 4 = 22$.
- Choice A is correct.** (4.NF.A.1) To simplify, divide both top and bottom by the same number. Here, divide by 2: $\frac{6}{8} = \frac{6 \div 2}{8 \div 2} = \frac{3}{4}$. This gives you fewer, bigger pieces.
- Choice B is correct.** (4.MD.C.5) The angle turns through 45 one-degree angles, measuring 45° .
- Choice A is correct.** (4.NF.B.4) A multiple of $\frac{1}{5}$ means we count by fifths. We can write $\frac{2}{5} = 2 \times \frac{1}{5}$, so it's a multiple. The others don't fit that pattern.
- Choice D is correct.** (4.OA.B.4) Test each number for factors beyond 1 and itself. 13: not even (so not $\div 2$); digits $1 + 3 = 4$ (not $\div 3$); doesn't end in 0 or 5 (not $\div 5$). Only 1×13 works—**prime!** The others are composite: $14 = 2 \times 7$, $16 = 2 \times 8$, $18 = 2 \times 9$.
- Choice A is correct.** (4.NF.B.3) The gardener needs soil but already has some. Find how much more is needed by subtracting what he has from what's needed: $\frac{6}{4} - \frac{2}{4} = \frac{4}{4}$ more bags of soil are needed.



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Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 9 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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

Jay Daie

Your Math Trail Guide

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

With 9 full-length practice tests, students gain repeated exposure to important Grade 4 concepts while learning how to approach questions with accuracy, confidence, and strong mathematical thinking.

Whether used at home, in the classroom, or for independent review, this book provides meaningful practice that helps students grow stronger with every test.

PERFECT FOR:

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- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement

★ **CONFIDENCE IN MATH.
SUCCESS FOR LIFE.**

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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!



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Strengthens Critical Thinking & Problem Solving



Encourages Independent Learning



Prepares Students for Future Success