

+ =

10 Massachusetts MCAS



GRADE 3

MATH

PRACTICE TESTS

✓ Complete Standards Review

✓ Skill Practice

✓ Word Problems
and Answer Key

2 × 7 + 4



★ ★ ★
PREPARE
PRACTICE
SUCCEED!
★ ★ ★



Aligned to
Grade 3 Math
Standards



Build Confidence
and Master
Math Skills



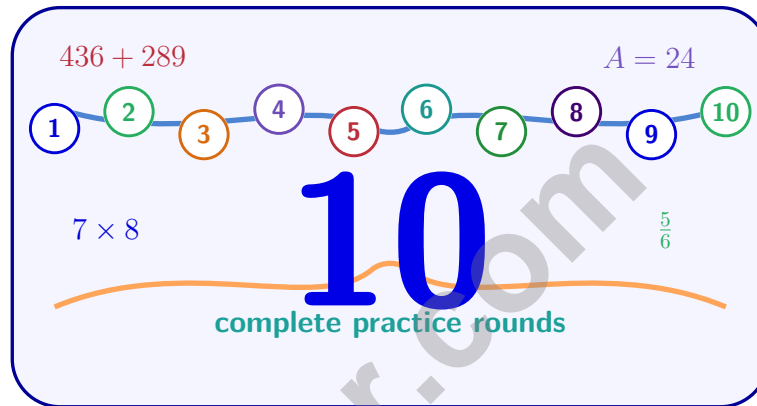
Test-Taking
Practice for
Success



Answer Key
for Easy
Review

10 Massachusetts MCAS Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 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!

Ten steady rounds on the Bay State math route

This book gives you ten full Grade 3 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?

Ten tests, 300 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.
Test 10	Final round to show growth across the whole Massachusetts 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.

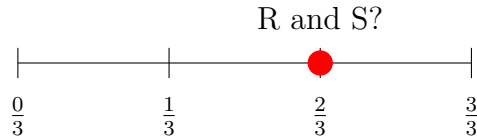


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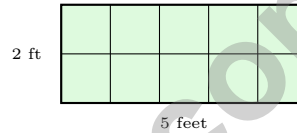
Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	27
★ Practice Test 3	_____	40
★ Practice Test 4	_____	52
★ Practice Test 5	_____	63
★ Practice Test 6	_____	75
★ Practice Test 7	_____	88
★ Practice Test 8	_____	100
★ Practice Test 9	_____	112
★ Practice Test 10	_____	126
Practice Test Answer Keys	_____	137
Practice Test Answers and Explanations	_____	143

- 1) Two identical number lines go from 0 to 1. Point R is at $\frac{4}{6}$. Point S is at $\frac{2}{3}$. Are they at the same location?



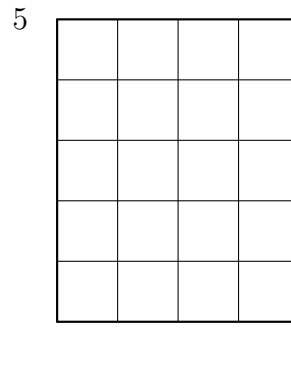
- A. No, R is left of S.
- B. No, S is left of R.
- C. Yes, at the same spot.
- D. The lines are different.
- 2) A unit square measures 1 foot by 1 foot. Which rectangle requires exactly 10 unit squares to cover it?



- A. 2 feet by 5 feet
- B. 3 feet by 3 feet
- C. 2 feet by 4 feet
- D. 3 feet by 2 feet
- 3) Look at even numbers: 2, 4, 6, 8, 10, 12, 14.
What is the rule for this pattern?
- A. Add 1 each time
- B. Skip count by 4
- C. Add 3 each time
- D. Add 2 each time
- 4) A bell rings at 1 : 16 PM. What time will it be 29 minutes later?
- A. 1 : 35 PM
- B. 1 : 45 PM
- C. 2 : 00 PM
- D. 1 : 40 PM



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9)

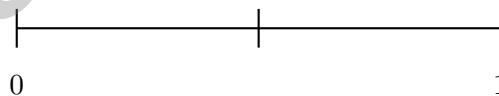
Count all the unit squares. What is the area?

 A. 9 C. 20 B. 18 D. 40

10) A line plot shows the lengths of 10 pencils to the nearest $\frac{1}{4}$ inch. There are three X's above $4\frac{1}{2}$ inches. What does this mean?

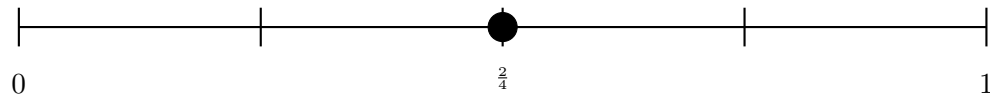
 A. 3 pencils are $4\frac{1}{2}$ inches long C. $\frac{1}{2}$ of the pencils are 3 inches B. 3 is added to $4\frac{1}{2}$ D. 3 pencils total

11) On a number line from 0 to 1 with 2 equal parts, what fraction is at the first tick mark?

 A. $\frac{2}{2}$ C. $\frac{1}{1}$ B. $\frac{1}{2}$ D. $\frac{0}{2}$ 

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- 1) On a number line from 0 to 1 with 4 equal parts, which pair names the same point?



- A. $\frac{2}{4}$ and $\frac{3}{4}$ C. $\frac{2}{4}$ and $\frac{2}{2}$
 B. $\frac{2}{4}$ and $\frac{1}{2}$ D. $\frac{2}{4}$ and $\frac{4}{4}$
- 2) Eli ate $\frac{3}{3}$ of a granola bar. Mia ate $\frac{2}{3}$ of a granola bar of the same size. Who ate more?
- A. Eli C. They ate the same amount
 B. Mia D. Cannot compare the fractions
- 3) A line plot shows music note durations in beats: 1, $1\frac{1}{2}$, 2, $2\frac{1}{2}$. There are 3 notes at 1 beat, 1 at $1\frac{1}{2}$ beats, 4 at 2 beats, and 1 at $2\frac{1}{2}$ beats. How many notes are at $2\frac{1}{2}$ beats?
- A. 1 C. 3
 B. 2 D. 4
- 4) A rectangular garden has length 8 feet and width 3 feet. What is its area in square feet?
- A. 24 sq ft C. 11 sq ft
 B. 16 sq ft D. 32 sq ft
- 5) Sofia has 18 flowers. She puts them into 2 equal bouquets. How many flowers are in each bouquet?
- A. 8 flowers C. 10 flowers
 B. 11 flowers D. 9 flowers



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6) $\frac{1}{2} = \frac{?}{6}$. What is the missing numerator?

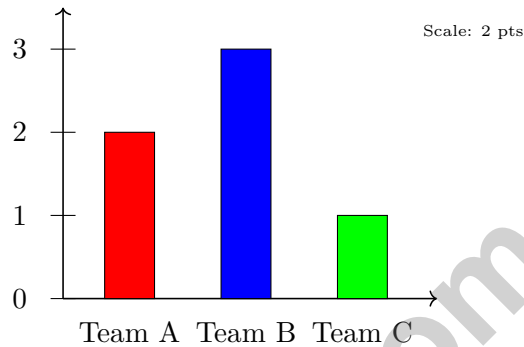
A. 1

B. 2

C. 3

D. 4

7) A bar graph shows points scored. Scale is 2 points per unit. Read the three bars.



A. Total points: 16

B. Total points: 14

C. Total points: 12

D. Total points: 18

8) If the unit fraction on a number line is $\frac{1}{8}$, how many such fractions fit from 0 to 1?

9) What is $635 - 241$?

A. 394

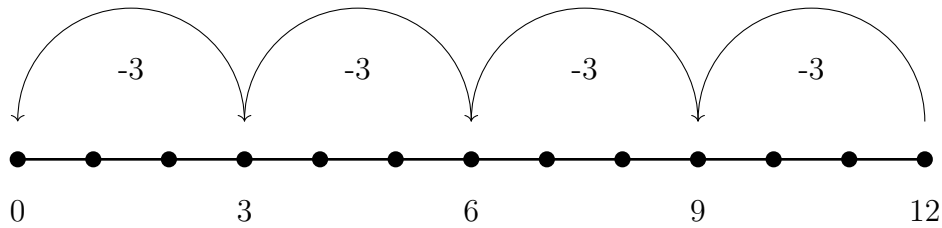
B. 404

C. 384

D. 464



1) Look at the number line. It shows repeated subtraction of 3.



How many times do you subtract 3 from 12 to reach 0?

- A. 2 times C. 5 times
 B. 3 times D. 4 times
- 2) Lily is arranging unit square stickers on a rectangular poster. The poster is 9 units tall and 2 units wide. How many stickers will she use to cover it completely?
- A. 18 stickers C. 27 stickers
 B. 11 stickers D. 36 stickers
- 3) Find $7 \times 9 + 5$.

- 4) A number line from 0 to 1 has 4 tick marks dividing it equally (not counting 0 and 1). Each part is $\frac{1}{5}$. What is true?
- A. There are 4 equal parts C. There are 6 equal parts
 B. There are 5 equal parts D. There are 3 equal parts



5) Which fraction equals 1 whole?

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

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

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

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

6) What number makes this equation true?

$$\square \times 3 = 27$$



Marked sides



Marked sides

7)

This shape has exactly 2 sides marked in red. Are they parallel?

 A. Yes, they are parallel B. No, they are not parallel C. They are perpendicular D. They are equal in length

8) A small garden is shaped like a rectangle. Its dimensions are 5 meters by 4 meters. What is the total area?

 A. 9 sq m B. 20 sq m C. 18 sq m D. 25 sq m

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Practice Test Answer Keys

How to use this section with a Grade 3 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

- 1) **Choice C is correct.** **(3.NF.A.2)** $\frac{4}{6} = \frac{2}{3}$. Both equal two-thirds.
- 2) **Choice A is correct.** **(3.MD.C.6)** $2 \times 5 = 10$ unit squares. Option B is $3 \times 3 = 9$. Option C is $2 \times 4 = 8$. Option D is $3 \times 2 = 6$.
- 3) **Choice D is correct.** **(3.OA.D.9)** Even numbers increase by 2: 2, 4, 6, 8, etc.
- 4) **Choice B is correct.** **(3.MD.A.1)** $1 : 16 + 29 \text{ min} = 1 : 45 \text{ PM}$.
- 5) **Choice A is correct.** **(3.MD.C.7)** Total is $8 \times 5 = 40$. One part is $8 \times 3 = 24$. Other part is $40 - 24 = 16$, which is 8×2 .
- 6) **Choice D is correct.** **(3.OA.A.1)** 6 anthills with 9 ants each means 6 groups of 9. So $6 \times 9 = 54$ ants.
- 7) **Choice A is correct.** **(3.OA.B.6)** $24 \div 6 = \square$ means $\square \times 6 = 24$. Since $4 \times 6 = 24$, each friend gets 4 crackers. We use a multiplication fact to solve the division problem.
- 8) **Choice A is correct.** **(3.MD.C.6)** The rectangle has 5 units wide and 2 units tall. $5 \times 2 = 10$ sq units.
- 9) **Choice C is correct.** **(3.MD.D.8)** Visual grid: 4 wide \times 5 tall = 20 square units.
- 10) **Choice A is correct.** **(3.MD.B.4)** Each X represents one measurement. Three X's above $4\frac{1}{2}$ means three pencils have that length.
- 11) **Choice B is correct.** **(3.NF.A.2)** The first tick mark on a number line divided into 2 equal parts is $\frac{1}{2}$.
- 12) **Choice D is correct.** **(3.OA.A.2)** There are 2 people total. $16 \div 2 = 8$, so each person gets 8 cookies.
- 13) **Choice D is correct.** **(3.NBT.A.1)** The tens digit is 7. Since $7 \geq 5$, round up: 475 rounds to 500.
- 14) **The correct answer is 20 square inches.** **(3.MD.D.8)** Area = length \times width, so $5 \times 4 = 20$ square inches.
- 15) **Choices A and C are correct.** **(3.OA.D.8)** Multiply tables by chairs per table: $9 \times 4 = 36$. Then add: $36 + 8 = 44$. Choices A and C both correctly compute $(9 \times 4) + 8 = 44$. Choice B adds all three numbers (incorrect order). Choice D applies order of operations wrong. Choice E adds first then multiplies (wrong method).
- 16) **Choice A is correct.** **(3.OA.A.4)** Use the inverse: $9 \times 4 = 36$, so $36 \div 4 = 9$.
- 17) **Choice B is correct.** **(3.MD.C.5)** Area is the space INSIDE a shape. Maria must count or multiply to find all the unit squares, not just the border. $5 \times 3 = 15$ square units.
- 18) **Choice B is correct.** **(3.NF.A.3)** $\frac{1}{2}$ and $\frac{2}{4}$ represent the same amount. Both show half of a whole.
- 19) **Choice B is correct.** **(3.NF.A.3)** Same numerator, different denominators. One third has bigger pieces than one sixth. Ava has a larger piece.
- 20) **Choice A is correct.** **(3.MD.C.5)** Add all three parts: $12 + 9 + 9 = 30$ square units.
- 21) **Choice A is correct.** **(3.NBT.A.2)** Ones: $0 - 7$ requires regrouping, so $10 - 7 = 3$. Tens: $1 - 8$ requires regrouping, so $11 - 8 = 3$. Hundreds: $5 - 3 = 2$. Answer: 233.
- 22) **Choice D is correct.** **(3.OA.A.3)** Multiply: 8 rows \times 4 columns = 32 soldiers.
- 23) **Choice D is correct.** **(3.G.A.1)** A quadrilateral has 4 vertices (corners), one at each place where two sides meet.
- 24) **The correct answer is 45 students.** **(3.MD.B.3)** Soccer: $4 \times 5 = 20$. Basketball: $3 \times 5 = 15$. Kickball: $2 \times 5 = 10$. Total: $20 + 15 + 10 = 45$.
- 25) **Choice D is correct.** **(3.OA.B.5)** Since 9 groups of 4 is one group of 4 less than 10 groups of 4, $9 \times 4 = 10 \times 4 - 1 \times 4 = 40 - 4 = 36$.
- 26) **Choice C is correct.** **(3.MD.C.5)** 3 columns and 4 rows: $3 \times 4 = 12$ unit squares.
- 27) **Choice B is correct.** **(3.MD.C.7)** Area = $10 \times 2 = 20$ square meters.
- 28) **Choice B is correct.** **(3.MD.A.2)** Read the marking on the measuring cup: 200 mL.
- 29) **Choice C is correct.** **(3.OA.C.7)** $8 \times 7 = 56$. Think $8 \times 7 = 8 \times (5 + 2) = 40 + 16 = 56$.
- 30) **The correct answer is $\frac{1}{6}$.** **(3.NF.A.1)** One of 6 equal parts is $\frac{1}{6}$.

Practice Test 2 Answers and Explanations



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Champion tip: on test day, walk in proud. You trained for this. You are ready!

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

Jay Daie

Your Math Coach

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