

9

Massachusetts

MCAS

GRADE 3 MATH
PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,
WORD PROBLEMS, AND ANSWER KEY

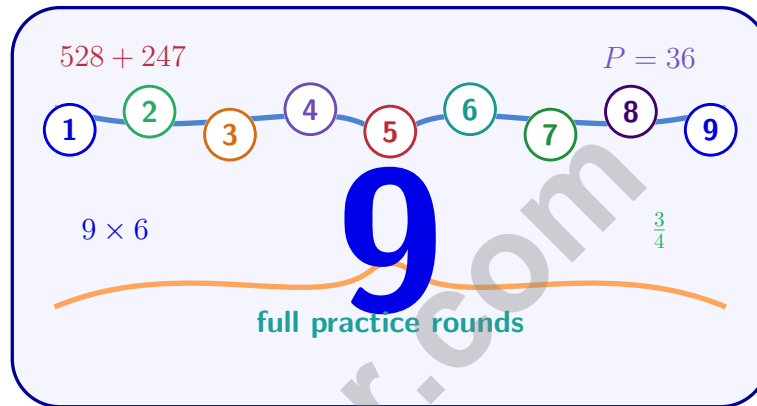


10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

9 Massachusetts MCAS Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 3 practice rounds with operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Massachusetts, Start Your Nine-Round Math Quest

A bright Grade 3 mission from first try to confident finish

This book gives you nine chances to practice like a thoughtful Massachusetts MCAS test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

Massachusetts has historic streets, coastal science, town greens, train routes, and curious classrooms, where careful steps matter. Strong math follows that same idea: compare what the question asks, choose a useful tool, show the work, and measure before moving on.

Your Massachusetts Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

Nine rounds is not about rushing. It is about building a math habit that stays strong.

How to Use This Book

A nine-session routine for clear Massachusetts review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

Good rhythm: Test one day, review the next day, then take the next test when your corrections feel clear. In Massachusetts, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with MCAS support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A Massachusetts standards reference and standard-code boxes in explanations

Why mixed practice helps: Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.

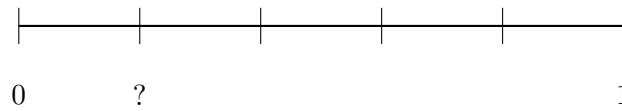


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- 4) A number line from 0 to 1 is divided into 5 equal parts. Which shows the unit fraction?



- A. $\frac{1}{5}$
 C. $\frac{1}{6}$
 B. $\frac{1}{4}$
 D. $\frac{2}{5}$
- 5) Sam has two chocolate bars. Bar 1 is split into 3 equal pieces. Bar 2 is split into 6 equal pieces. He eats $\frac{2}{6}$ of Bar 2. What fraction of Bar 1 equals what he ate?
- A. $\frac{2}{3}$
 C. $\frac{3}{6}$
 B. $\frac{1}{6}$
 D. $\frac{1}{3}$
- 6) A soccer team has 3 equal groups of players. There are 8 players in each group. How many players are on the team?
- A. 5
 C. 11
 B. 16
 D. 24

7)

×	1	2	3	4
2	2	4	6	8

All highlighted products are even. Why?

- A. Because they are in a table
 C. Because the numbers are small
 B. Because they have 4 entries
 D. Because they are multiplied by 2



5) A factory packages 90 toys equally into 9 crates. They ship away 4 crates. How many toys remain?

A. 45

C. 55

B. 60

D. 50

6) The bar is completely shaded. It shows $\frac{5}{5}$. Write the whole number this equals.



7) Maria has 328 marbles. She rounds to the nearest 10 to estimate. Then she rounds that answer to the nearest 100. What is the final answer? (This is called double rounding.)

A. 300

C. 330

B. 320

D. 400

8) What is $500 - 243$?

A. 257

C. 357

B. 267

D. 347

9) A garden is 7 feet long and 5 feet wide. What is its area?

A. 12 sq ft

C. 24 sq ft

B. 35 sq ft

D. 70 sq ft



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1)

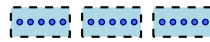
×	2	4	6
2	4	8	12
3	6	12	18

Which products in this table are even?

- A. Only 4 and 8 C. All of them
 B. Only 6, 12, and 18 D. None of them

2) Which picture shows 21 items divided equally into 3 groups?

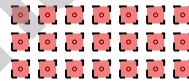
- A. Three groups of five



- B. Seven groups of three



- C. Twenty-one groups of one



- D. Three groups of seven



3) If a number line from 0 to 1 has 8 equal parts, how far is the fifth tick from 0?

- A. $\frac{1}{8}$ C. $\frac{5}{8}$
 B. $\frac{4}{8}$ D. $\frac{8}{8}$

- 4) Mia finished at 4 : 52 and started 39 minutes earlier. What time did she start?

- 5) Look at this number line divided into 3 equal parts. Which fraction is NOT on this line?



- A. $\frac{1}{3}$ C. $\frac{3}{3}$
 B. $\frac{2}{3}$ D. $\frac{1}{4}$
- 6) Look at the skip-count number line. It shows counting by 3s. What number is missing?



What is 3×3 ?

- A. 6 C. 12
 B. 15 D. 9



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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

- Choice A is correct.** **(3.MD.A.2)** 5 g is the smallest (lightest) mass.
- Choice C is correct.** **(3.MD.C.5)** Part 1: $3 \times 4 = 12$ sq m. Part 2: $5 \times 2 = 10$ sq m. Total: $12 + 10 = 22$ sq m.
- Choice D is correct.** **(3.OA.B.6)** The bar is divided into 6 equal parts with a total of 48. Each part is $48 \div 6 = 8$. You can check: $8 \times 6 = 48$.
- Choice A is correct.** **(3.NF.A.1)** Five equal parts means each part is $\frac{1}{5}$.
- Choice D is correct.** **(3.NF.A.2)** $\frac{2}{6} = \frac{1}{3}$. When Sam eats $\frac{2}{6}$ of Bar 2, he ate the same amount as $\frac{1}{3}$ of Bar 1.
- Choice D is correct.** **(3.OA.A.3)** Multiply: 3 groups \times 8 players per group = 24 players.
- Choice D is correct.** **(3.OA.D.9)** Any number times 2 is even. Products: $2 \times 1 = 2$, $2 \times 2 = 4$, etc., are all even.
- Choice D is correct.** **(3.NF.A.3)** $\frac{6}{8}$ and $\frac{3}{4}$ mark the same point on the line.
- Choice D is correct.** **(3.OA.C.7)** If $4 \times 9 = 36$, then $36 \div 9 = 4$. Multiplication and division are inverse operations.
- Choice D is correct.** **(3.NBT.A.3)** $9 \times 20 = 180$ (multiply $9 \times 2 = 18$, add zero), $6 \times 30 = 180$ (multiply $6 \times 3 = 18$, add zero), and $18 \times 10 = 180$. But $3 \times 50 = 150$ (multiply $3 \times 5 = 15$, add zero), so choice D does not equal 180.
- The correct answer is 32 square units.** **(3.MD.C.7)** $5 + 3 = 8$, and $4 \times 8 = 32$ square units.
- Choice D is correct.** **(3.OA.A.1)** The picture shows 4 columns with 3 circles in each column. So $4 \times 3 = 12$ circles.
- Choice A is correct.** **(3.NF.A.3)** Rectangle A shows $\frac{2}{4}$ (2 out of 4 parts) and Rectangle B shows $\frac{4}{8}$ (4 out of 8 parts). Both represent the same amount, so $\frac{2}{4} = \frac{4}{8}$.
- Choice D is correct.** **(3.G.A.2)** $\frac{2}{2} = 1$ whole. All parts of the rectangle are colored.
- Choices A and C are correct.** **(3.MD.C.5)** Squares and rectangles with whole-number side lengths can be covered exactly by unit squares without gaps or overlaps (choices A and C). Shapes with curves, slants, or irregular edges would need partial squares.
- Choice A is correct.** **(3.MD.D.8)** Since area = length \times height, we have $18 = \text{length} \times 3$. Therefore, length = $18 \div 3 = 6$ meters. Choice B (15) subtracts from area; C (21) adds; D (9) is half of area.
- Choice C is correct.** **(3.OA.D.8)** Step 1: Total money: $15 + 20 = 35$ dollars. Step 2: Subtract spent: $35 - 18 = 17$ dollars left.
- Choice D is correct.** **(3.OA.A.4)** Divide: $32 \div 4 = 8$ stickers per friend.
- The correct answer is 4 parts.** **(3.G.A.2)** Half of 8 is 4.
- Choice B is correct.** **(3.NF.A.1)** The circle is divided into 4 equal parts. One part is shaded, so the shaded fraction is $\frac{1}{4}$ (one-fourth).
- Choice A is correct.** **(3.MD.A.1)** From 10 : 25 to 11 : 25 is 60 minutes. The game ends at 11 : 20, which is 5 minutes earlier: $60 - 5 = 55$ minutes. Distractor C (off-by-10), distractor B (confusion with minutes only).
- Choice B is correct.** **(3.NF.A.3)** Four fourths is one whole. Four sixths is less than one whole. So $\frac{4}{4} > \frac{4}{6}$.
- Choice C is correct.** **(3.NBT.A.1)** For 367, look at the tens digit (6). Since $6 \geq 5$, round the hundreds digit up: 367 rounds to 400.
- The correct answer is 21 square feet.** **(3.MD.C.7)** $3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$, which matches $7 \times 3 = 21$ square feet.
- Choice C is correct.** **(3.MD.C.5)** Square: $8 \times 8 = 64$ square units. Rectangle: $4 \times 16 = 64$ square units. Many different shapes can have the same area.
- Choice A is correct.** **(3.MD.C.6)** $5 \times 7 = 35$ sq cm. The other choices do not equal 35.
- Choice D is correct.** **(3.OA.A.2)** $16 \div 2 = 8$. The strawberries are shared equally between 2 bowls.
- Choice C is correct.** **(3.G.A.1)** A square has all 4 sides equal in length and all 4 angles are right angles (90 degrees). This makes it both a rectangle and a rhombus.
- Choice C is correct.** **(3.NF.A.2)** $\frac{3}{4}$ is 3 out of 4 equal parts, so it is at the third tick mark from 0.



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Inventor's Workshop Note

Hi, Math Inventor!

◇ 9 practice tests. 9 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

Inventor tip: on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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

Jay Daie

Your Math Inventor

STRONG TODAY. SUCCESS TOMORROW.

Give your child the tools they need to excel in **Grade 3 Math!** This book includes **9 complete practice tests** that follow grade-level standards and help students build confidence, sharpen skills, and achieve success.

9
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Aligned to Standards



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