

7 Massachusetts MCAS Grade 3 Math Practice Tests

Comprehensive Test Prep with Detailed Answers

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CHALLENGE SERIES

7 Practice Tests to Train Like a Champion!

Welcome, math champion! 🏆

You've got **7 full-length practice tests** ahead of you — that's the kind of serious training that turns good math students into great ones. Athletes train before the big game, and that's exactly what you're doing here!

🏆 Each test sharpens your **skills**!

🏆 Each test builds your **speed**!

🏆 By test 7, you'll be **unstoppable**!

Lace up your math shoes — it's training time! 🏃

“Seven tests is a real commitment, and I'm impressed you're taking it on! By the end, you'll know these topics inside and out.”



Your Training Plan

How to get the most from 7 practice tests!

What's in Your Training Kit

- **7 Full-Length Practice Tests** — Enough to build real mastery over every Grade 3 math topic!
- **Complete Answer Key** — Detailed step-by-step explanations for every single question.
- **Reference Pages** — Math symbols chart and multiplication table to use during tests.
- **Champion Tracker** — Record your scores, set goals, and track your improvement.

3-Phase Training Plan

Phase 1: Warm-Up (Tests 1–2)

Take these without a timer. Get comfortable with the format. Review answers carefully. Identify your strong and weak topics.

Phase 2: Build Speed (Tests 3–5)

Start using a timer. Focus on the topics that tripped you up in Phase 1. Practice showing your work neatly. Compare scores to earlier tests!

Phase 3: Game Day (Tests 6–7)

Simulate full test conditions: quiet room, timed, no help. These are your final dress rehearsals. You've trained for this!

Multiple Choice

Choose the **best answer** from A, B, C, or D.

Champion strategy: Solve it first without looking at the choices. Then find your answer in the list. This prevents tricky wrong answers from confusing you!

Short Answer

Show your work and write a clear answer.

Champion strategy: Write out every step, then re-read the question to make sure you answered what it actually asked — not what you thought it asked!

“ The Champion’s Review ”



After every test: **(1)** Check your answers. **(2)** Read every explanation. **(3)** Write down topics to review. **(4)** Study those topics. **(5)** Take the next test. This cycle is what separates good scores from great ones!

🦋 **7 tests, 7 chances to improve.** Champions aren’t born — they’re built through practice. You’re already on your way! 🦋



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💡 Champion Strategies 💡

Pro-level tips to help you perform your best!

🚩 Your Pre-Test Routine

Champions do the same routine before every game. Here's yours:

1. **Clear your desk.** Only pencils, eraser, scratch paper, and this book.
2. **Take 5 deep breaths.** Slow and steady. Feel your body relax.
3. **Set your goal.** Write it down: "Today I will..." (show my work, stay calm, check every answer).
4. **Start the timer** and go!

🔄 The 3-Pass Method

This is how the best test-takers work through a test:

- Pass 1: The Quick Sweep.** Go through every question. Answer the ones you know right away. Put a small dot next to the ones that need more thought.
- Pass 2: The Deep Dive.** Go back to the dotted questions. Read them again carefully. Use scratch paper. Try different strategies.
- Pass 3: The Final Check.** Review all your answers. Did you fill in every blank? Do any answers look weird? Double-check your math.

🧩 Crack Word Problems

1. Read the problem. Read it again.
2. Circle the **numbers**.
3. Underline the **question**.
4. Decide: add, subtract, multiply, or divide?
5. Solve. Check: does the answer make sense?

⚠️ Top 5 Mistakes

1. Answering too fast without reading
2. Using the wrong operation (+ instead of $\times$)
3. Forgetting to regroup (carry/borrow)
4. Misreading a number (36 vs. 63)
5. Leaving questions blank



“With 7 tests, you can actually see your strategy improving! Pay attention to how you take each test, not just your score. Are you reading more carefully? Showing more work? Staying calmer? Those are champion moves!”

PREVIEW



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X¹ Math Reference Sheet X¹

You may use this page during your practice tests!

Symbol	Name	What It Means	
+	Plus (Add)	Put numbers together.	$3 + 5 = 8$
-	Minus (Subtract)	Take away from a number.	$9 - 4 = 5$
×	Times (Multiply)	Add equal groups.	$4 \times 3 = 12$
÷	Divide	Split into equal groups.	$12 \div 3 = 4$
=	Equals	Both sides are the same.	$2 + 3 = 5$
>	Greater Than	The left number is bigger.	$7 > 3$
<	Less Than	The left number is smaller.	$2 < 9$
$\frac{1}{2}$	Fraction Bar	Part of a whole. $\frac{1}{2}$ means 1 out of 2 equal parts	

Key Math Words

- **Sum** — the answer when you add
- **Difference** — the answer when you subtract
- **Product** — the answer when you multiply
- **Quotient** — the answer when you divide
- **Factor** — a number you multiply
- **Array** — objects in rows and columns
- **Fraction** — a part of a whole
- **Numerator** — the top number in a fraction
- **Denominator** — the bottom number
- **Equation** — a math sentence with =
- **Estimate** — a smart guess, close to the real answer
- **Perimeter** — the distance around a shape
- **Area** — the space inside a shape
- **Rounding** — making a number simpler by going to the nearest ten or hundred

 Word Problem Clue Words

- **Add** (+): *in all, total, altogether, combined, sum, both, more*
- **Subtract** (−): *how many more, how many left, fewer, difference, remain*
- **Multiply** (×): *each, every, groups of, times, rows of, per*
- **Divide** (÷): *share equally, split, each group, how many groups, per*



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PRACTICE TEST

1

Practice Test 1

 30 Questions

Before You Start

- ✓ *Read each question carefully before choosing your answer.*
- ✓ *Show your work on scratch paper when you need to.*
- ✓ *Skip hard questions and come back to them later.*
- ✓ *Check your answers when you're done.*
- ✓ *Take your time — there's no rush!*

★ *You've Got This!* ★

Do your best and show what you know!



1. What is 4,729 written in expanded form?

(A) $4,000 + 700 + 20 + 9$

(B) $4,000 + 72 + 9$

(C) $4 + 7 + 2 + 9$

(D) $400 + 70 + 29$

2. Leo rounded 249 to the nearest 100 and got 300. What is the correct answer?

(A) 100

(B) 200

(C) 250

(D) 300

3. Which number is even?

(A) 43

(B) 57

(C) 64

(D) 81

4. Which number comes next in this pattern?

2,000, 4,000, 6,000, 8,000, ?

(A) 8,500

(B) 9,000

(C) 10,000

(D) 12,000

5. What is 100,000 more than 899,999?

(A) 900,000

(B) 999,999

(C) 909,999

(D) 1,000,000



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6. What is 6,782 rounded to the nearest 1,000?

(A) 6,000

(B) 6,700

(C) 6,800

(D) 7,000

7. What is $475 + 325$?

(A) 700

(B) 790

(C) 800

(D) 810

8. What is $1,475 + 3,568$?

(A) 4,933

(B) 5,043

(C) 5,033

(D) 4,943

9. If $3 \times 8 = 24$, what is 3×800 ?

(A) 240

(B) 2,400

(C) 24,000

(D) 824

10. Use the distributive property: $7 \times 6 = 7 \times (5 + 1) = ?$

(A) $(7 \times 5) + (7 \times 1) = 35 + 7 = 42$

(B) $(7 + 5) \times (7 + 1) = 96$

(C) $7 \times 5 + 1 = 36$

(D) $(7 \times 5) \times (7 \times 1) = 245$



11. There are 56 chairs in a room. The chairs are arranged in 7 equal rows. How many chairs are in each row?

(A) 7

(B) 8

(C) 9

(D) 49

12. Mom bakes 36 cookies and divides them equally onto 4 plates. Dad adds 3 cookies to each plate. How many cookies are on each plate now?

(A) 10

(B) 11

(C) 12

(D) 13

13. Is 30 a multiple of both 5 and 6?

(A) Yes, because $5 \times 6 = 30$

(B) No, it is only a multiple of 5

(C) No, it is only a multiple of 6

(D) No, it is a multiple of 3

14. A chocolate bar has 8 equal squares. You eat 5 squares. Write the fraction you ate.

Your Answer:

15. Which of the following is a unit fraction?

(A) $\frac{2}{3}$

(B) $\frac{1}{4}$

(C) $\frac{3}{4}$

(D) $\frac{5}{6}$



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16. $\frac{2}{4} = \frac{?}{8}$. What is the missing numerator?

(A) 2

(B) 3

(C) 4

(D) 6

17. What whole number does $\frac{10}{2}$ equal?

Your Answer:

18. When two fractions have the same denominator, how do you compare them?

(A) The one with the bigger denominator is larger

(B) The one with the bigger numerator is larger

(C) They are always equal

(D) You cannot compare them

19. Convert $\frac{13}{6}$ to a mixed number.

Your Answer:

20. A marker is $4\frac{1}{2}$ inches long. A pen is 6 inches long. How much longer is the pen than the marker?

Your Answer:

21. Which is the best estimate for the mass of a large dog?

(A) 3 grams

(B) 30 grams

(C) 30 kilograms

(D) 300 kilograms



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22. Liam buys an apple for \$0.85 and a banana for \$0.40. He pays with a \$5 bill. How much change does he get?

- (A) \$3.25 (B) \$3.75
(C) \$4.15 (D) \$4.60

23. Subtract: $\$12.00 - \7.45

Your Answer:

24. Which temperature would be best for a snowy winter day?

- (A) $85^{\circ}F$ (B) $65^{\circ}F$
(C) $50^{\circ}F$ (D) $25^{\circ}F$

25. A bar graph shows flower counts: Roses = 8, Tulips = 5, Daisies = 6, Lilies = 3. What is the total number of roses and tulips?

- (A) 3 (B) 11
(C) 13 (D) 22

26. A line plot shows straw lengths in inches. There are X marks above 3 , $3\frac{1}{2}$, 4 , $4\frac{1}{2}$, and 5 . What is the difference between the longest and shortest straw?

- (A) 1 inch (B) $1\frac{1}{2}$ inches
(C) 2 inches (D) 5 inches



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27. What is the name of a polygon with 10 sides?

(A) Nonagon

(B) Octagon

(C) Hexagon

(D) Decagon

28. A square has sides of 8 feet. What is the area?

Your Answer:

29. A rectangle is partitioned into 6 equal parts. If 5 parts are shaded, what fraction is NOT shaded?

Your Answer:

30. A polygon has 2 fewer sides than a decagon. What polygon is it, and how many sides does it have?

Your Answer:



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★ *End of Practice Test 1* ★

Great job finishing the test!

My Score

I got _____ out of 30 questions right.

*Check your answers in the **Answer Key** at the back of the book.*

 *Review any questions you missed. That's how we learn!*

THANK YOU

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Get the Full Book!

This preview shows just a small sample of what's inside.

The complete book includes:

- ✓ *All chapters and topics*
- ✓ *Hundreds of practice problems*
- ✓ *Complete answer key with explanations*
- ✓ *Colorful visuals and step-by-step examples*
- ✓ *Reference sheets and progress trackers*

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