

10 Massachusetts MCAS Grade 3 Math Practice Tests

The Ultimate Test Prep Collection with Answer Explanations

Dr. A. Nazari

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ULTIMATE MASTERY

10 Practice Tests — The Ultimate Math Workout!

Welcome, math master! 👑

You're holding the **ultimate practice test book** — 10 complete tests that will take you from good to great. This is the most thorough math test training you can get, covering every Grade 3 topic from every angle!

👑 **10 tests** means **300 questions** of pure practice!

👑 Every topic covered **multiple times!**

👑 By the end, you'll **master** the math test!

This is your moment. Let's make it count! 🚀

“ Ten practice tests! That's the commitment of a true math master. By the end of this book, there won't be a single question type that can surprise you! ”

Your Mastery Plan

A complete guide to conquering 10 practice tests!

What's Inside This Book

- **10 Full-Length Practice Tests** — 300 questions covering every Grade 3 math topic from every angle!
- **Complete Answer Explanations** — Every question has a detailed step-by-step solution so you truly understand.
- **Reference Pages** — Math symbols chart and multiplication table to use whenever you need them.
- **Mastery Tracker** — Track scores, set milestones, and see your journey from start to finish!

Your 10-Test Roadmap

- **Tests 1–3** **Learn the Ropes.** No timer. Discover strengths and gaps.
 - **Tests 4–6** **Build Momentum.** Start timing. Study weak spots between tests.
 - **Tests 7–9** **Push Your Limits.** Full test conditions. Aim for personal bests.
 - **Test 10** **The Grand Finale!** Your ultimate performance. You're ready!
-  **Tip:** One test per week over 10 weeks is the ideal pace.

Multiple Choice

Pick the best answer from A, B, C, or D.

Master tip: After you pick an answer, ask yourself: "Why are the other three wrong?" If you can explain that, you truly understand the concept!

Short Answer

Show your work and write a clear answer.

Master tip: Write your steps as if you're teaching a friend. If someone could follow your work and get the same answer, you've shown your work the right way!

The Mastery Cycle



With 10 tests, you have the space to truly master each topic. After every test: **(1)** Check answers. **(2)** Study the explanations. **(3)** Practice tricky topics using our **Grade 3 Math Study Guide**. **(4)** Take the next test and watch your score climb!

👑 10 tests. 300 questions. 1 amazing math master. That's you! 👑

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💡 Master-Level Strategies 💡

Expert tricks to help you ace every single test!

👑 Your Test-Day Routine

Do this before **every single test**. Make it a habit!

1. **Rest & refuel** — Get sleep the night before. Eat well.
2. **Set up your workspace** — Clear desk. Pencils, eraser, scratch paper.
3. **Set your intention** — “Today I’ll focus on showing my work.” or “Today I’ll double-check every answer.”
4. **Deep breaths** — 3 slow breaths to focus your mind.
5. **Start!** — Remember: this is practice. You’re here to learn.

✂️ Advanced Problem-Solving

1. **Read, re-read, then plan.** Read the question. Read it again. Then decide how to solve it.
2. **Estimate first.** Before you calculate, make a rough guess. If your answer is way off from your estimate, something went wrong!
3. **Use elimination on multiple choice.** Cross out 1–2 wrong answers before picking. This boosts your odds!
4. **Draw it out.** Fractions, arrays, word problems — a quick sketch often reveals the answer.
5. **Label everything.** Write “apples,” “cm,” “\$” next to your numbers. It catches silly mistakes.
6. **Work backwards to check.** Got $24 \div 6 = 4$? Check: $4 \times 6 = 24$. Perfect!

🕒 Smart Pacing

- **First pass:** Answer everything you know quickly (~30 min)
- **Second pass:** Tackle the harder questions (~15 min)
- **Third pass:** Check all answers (~10 min)
- Don’t spend more than 2 minutes on any single question
- Star the hard ones and come back!

🧠 The Mastery Mindset

- Mistakes are data, not failures
- Compare yourself to your past self, not others
- Focus on understanding, not memorizing
- Every test you take makes the next one easier
- You’re training, not being tested!



“Here’s the truth: after 10 tests, you’ll know these math topics better than almost anyone in your class. Not because you’re “smarter,” but because you **practiced more**. That’s the secret behind every math master!”

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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!



18. Compare: $\frac{6}{8}$ — $\frac{2}{8}$

(A) >

(B) <

(C) =

(D) Cannot compare

19. Sara converted $2\frac{3}{4}$ to an improper fraction like this: $2 + 3 = 5$, so $\frac{5}{4}$. What did Sara do wrong?

(A) She should have subtracted instead of adding.

(B) She forgot to multiply the whole number by the denominator first.

(C) She should have added the denominator too.

(D) She did nothing wrong.

20. Max started measuring his pencil at the 1-inch mark. The other end reached the 7-inch mark. He says the pencil is 7 inches long. What is the real length?

(A) 7 inches

(B) 6 inches

(C) 8 inches

(D) 1 inch

21. Which unit would you use to measure the mass of a grape?

(A) Kilograms

(B) Liters

(C) Grams

(D) Meters

22. How many nickels make the same amount as 1 quarter?

(A) 3

(B) 4

(C) 5

(D) 10



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23. Emma buys a juice box for \$1.35 and a muffin for \$2.90. How much does she spend in all?

- (A) \$3.25 (B) \$4.15
(C) \$4.25 (D) \$3.35

24. Put these temperatures in order from coldest to warmest: 72°F , 35°F , 88°F , 50°F .

- (A) 88°F , 72°F , 50°F , 35°F (B) 35°F , 50°F , 72°F , 88°F
(C) 50°F , 35°F , 72°F , 88°F (D) 35°F , 72°F , 50°F , 88°F

25. A bar graph shows books read by four students: Anna = 9, Ben = 5, Carla = 7, Dan = 3. How many more books did Anna read than Dan?

Your Answer:

26. Using the same caterpillar line plot ($1\text{ in.} = 1$, $1\frac{1}{2}\text{ in.} = 3$, $2\text{ in.} = 5$, $2\frac{1}{2}\text{ in.} = 4$, $3\text{ in.} = 2$), what is the most common length?

- (A) $1\frac{1}{2}$ inches (B) 2 inches
(C) $2\frac{1}{2}$ inches (D) 3 inches

27. An angle that is bigger than a right angle is called:

- (A) An acute angle (B) A right angle
(C) An obtuse angle (D) A straight angle



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28. Which rectangle has the smallest area?

(A) $6\text{ cm} \times 5\text{ cm}$

(B) $3\text{ cm} \times 8\text{ cm}$

(C) $4\text{ cm} \times 7\text{ cm}$

(D) $2\text{ cm} \times 10\text{ cm}$

29. You fold a piece of paper in half 3 times. How many equal parts do you have?

(A) 3

(B) 6

(C) 8

(D) 12

30. How many sides does a heptagon 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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- ✓ *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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