

8

Michigan M-STEP

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



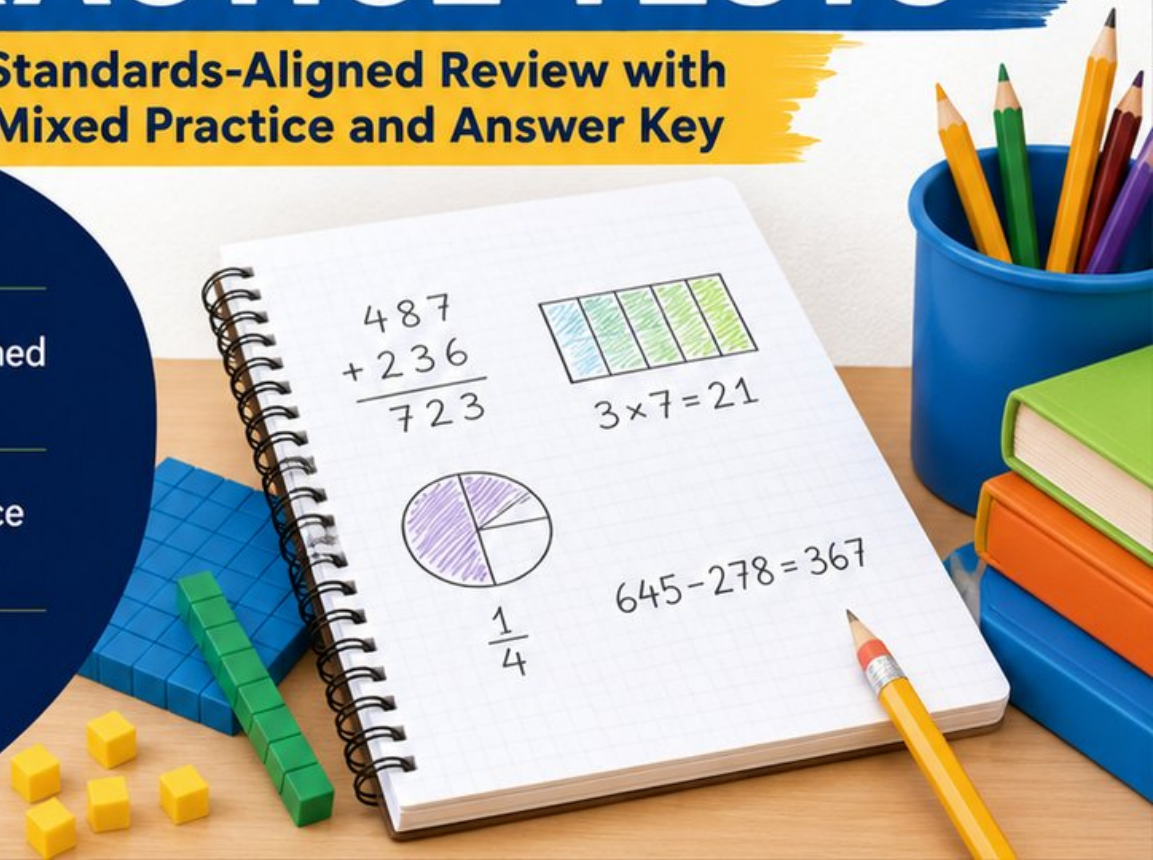
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 Michigan M-STEP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



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

Jay Daie and Reza Nazari



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Michigan, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the Michigan M-STEP. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

Michigan has Great Lakes shores, forest roads, car plants, snowy sidewalks, and steady school routines, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and build answers one reliable part at a time.

Your Michigan Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

Eight rounds. Thirty questions each. One careful step at a time.

How to Use This Book

A simple eight-round routine for confident review

Use this Michigan book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

Best review habit: In Michigan, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



What Is Inside the Eight Tests?

Mixed Grade 3 math practice for the M-STEP

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

Michigan focus: The practice path starts with Great Lakes shores, forest roads, car plants, snowy sidewalks, and steady school routines. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



Scan me!
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& answers

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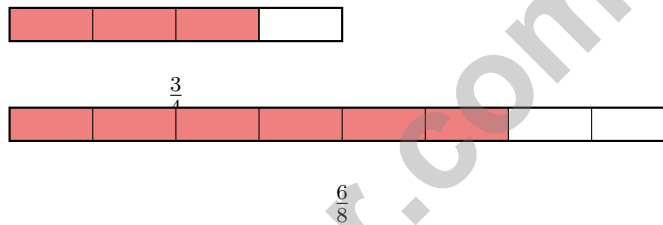
5) Marcus says $4 \times 70 = 4700$. Is he correct? Why or why not?

- A. Yes, he is correct. C. No, the answer is 470.
 B. No, the answer is 280. D. No, the answer is 2800.

6) Ava eats lunch at noon. Recess starts 25 minutes after lunch. What time does recess start?

- A. 12 : 25 PM C. 1 : 00 PM
 B. 12 : 15 PM D. 1 : 25 PM

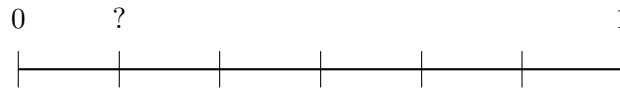
7) Look at the bars. Is $\frac{3}{4}$ equivalent to $\frac{6}{8}$?



- A. Yes, they are equivalent C. The second bar is larger
 B. No, they are not equivalent D. The first bar is larger
- 8) Two rectangles have the same area. Rectangle 1 is 2 units by 9 units. Rectangle 2 is 3 units by ? units. What is the missing length?
- A. 4 units C. 6 units
 B. 5 units D. 7 units



9) Look at this number line with 0 to 1 divided into 6 equal parts:



What fraction is the first tick labeled by the question mark?

- A. $\frac{1}{6}$ C. $\frac{1}{3}$
 B. $\frac{1}{5}$ D. $\frac{2}{6}$
- 10) Ben has 24 crackers to share equally among 6 friends. How many crackers does each friend get?
- A. 4 C. 3
 B. 6 D. 5
- 11) A runner drove 268 miles on Monday and 305 miles on Tuesday. She estimates the total distance by rounding each number to the nearest hundred. What is her estimate?
- A. 500 miles C. 700 miles
 B. 800 miles D. 600 miles
- 12) Which fraction is equivalent to $\frac{4}{6}$?
- A. $\frac{2}{3}$ C. $\frac{2}{4}$
 B. $\frac{4}{8}$ D. $\frac{1}{2}$
- 13) Select the **TWO** statements that are TRUE and explain why.
- A. Odd times odd always gives an even number
 B. Even times any number always gives an even number
 C. Skip counting by 3 produces only even numbers
 D. The product $5 \times 6 = 30$ is odd
 E. In a multiplication table, each row increases by the number being multiplied



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5) Mia weighs three items on a scale:

Item	Mass
Apple	200 g
Orange	150 g
Banana	120 g

Which item has the greatest mass?

- A. Apple C. Banana
 B. Orange D. All the same

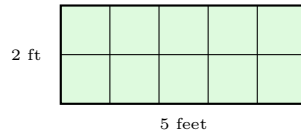
6) There are 20 cookies in 4 equal bags. Find $20 \div 4$ to show how many cookies are in each bag.

7) Which fraction is NOT equivalent to $\frac{3}{6}$?

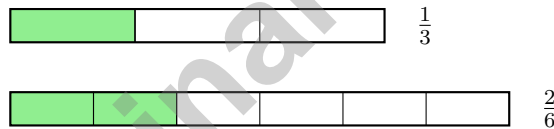
- A. $\frac{1}{2}$ C. $\frac{4}{8}$
 B. $\frac{2}{4}$ D. $\frac{2}{3}$



- 1) A unit square measures 1 foot by 1 foot. Which rectangle requires exactly 10 unit squares to cover it?

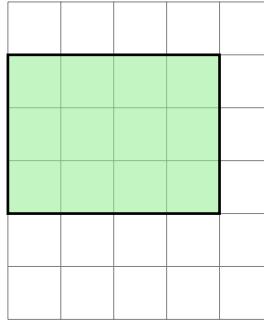


- A. 2 feet by 5 feet C. 2 feet by 4 feet
 B. 3 feet by 3 feet D. 3 feet by 2 feet
- 2) A line plot shows the lengths of 10 pencils to the nearest $\frac{1}{4}$ inch. There are three X's above $4\frac{1}{2}$ inches. What does this mean?
- A. 3 pencils are $4\frac{1}{2}$ inches long C. $\frac{1}{2}$ of the pencils are 3 inches
 B. 3 is added to $4\frac{1}{2}$ D. 3 pencils total
- 3) Which fraction is equivalent to $\frac{1}{3}$?



- A. $\frac{2}{6}$ C. $\frac{3}{4}$
 B. $\frac{2}{4}$ D. $\frac{1}{4}$

- 4) Look at the shaded squares on the grid. Count the unit squares.



- A. 10 square units C. 11 square units
 B. 12 square units D. 13 square units
- 5) Ava has 6 bags of marbles. Each bag has the same number of marbles. She has 42 marbles in all. How many marbles are in each bag?

$$6 \times \square = 42$$

- A. 9 C. 8
 B. 6 D. 7
- 6) Complete $\frac{2}{4} = \frac{?}{8}$.



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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 D is correct.** **(3.OA.A.3)** First multiply to find total buttons: $4 \text{ bags} \times 6 \text{ buttons per bag} = 24 \text{ buttons}$. Then divide by buttons per bracelet: $24 \div 8 = 3 \text{ bracelets}$.
- 2) **Choice B is correct.** **(3.NF.A.2b)** Four hops of size $\frac{1}{3} = 4 \times \frac{1}{3} = \frac{4}{3} = 1\frac{1}{3}$. The frog lands between 1 and 2.
- 3) **Choice B is correct.** **(3.MD.C.7b)** Area = length \times width = $10 \times 2 = 20$ square feet.
- 4) **Choice D is correct.** **(3.OA.A.1)** The picture shows 4 columns with 2 circles in each column. This is 4 groups of 2, so $4 \times 2 = 8$.
- 5) **Choice B is correct.** **(3.NBT.A.3)** $4 \times 70 = 4 \times 7 \times 10 = 28 \times 10 = 280$. Marcus added two zeros instead of one.
- 6) **Choice A is correct.** **(3.MD.A.1)** Noon is 12 : 00 PM. $12 : 00 + 25 \text{ min} = 12 : 25 \text{ PM}$. Distractor B (off-by-10), C (full hour), D (adds extra hour).
- 7) **Choice A is correct.** **(3.NF.A.3)** Both bars show the same amount shaded. $\frac{3}{4}$ and $\frac{6}{8}$ are equivalent.
- 8) **Choice C is correct.** **(3.MD.C.7)** Rectangle 1: $2 \times 9 = 18$ sq units. Rectangle 2: $3 \times ? = 18$. So $? = 18 \div 3 = 6$ units.
- 9) **Choice A is correct.** **(3.NF.A.2a)** Six equal parts means each is $\frac{1}{6}$.
- 10) **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.
- 11) **Choice D is correct.** **(3.NBT.A.2)** Round 268 to the nearest hundred: 300 (since $268 > 250$). Round 305 to the nearest hundred: 300. Estimate: $300 + 300 = 600$ miles. (Exact answer: 573 miles.)
- 12) **Choice A is correct.** **(3.NF.A.3b)** Divide the numerator and denominator of $\frac{4}{6}$ by 2: $\frac{4 \div 2}{6 \div 2} = \frac{2}{3}$.
- 13) **Choices B and E are correct.** **(3.OA.D.9)** Statement B is true because any even number contains a factor of 2, making the product even. Example: $4 \times 3 = 12$ (even). Statement E is true because the row for 5 shows 5, 10, 15, 20, ..., increasing by 5 each time ($5 \times 1, 5 \times 2, 5 \times 3$, etc.). Statement A is false (odd \times odd is odd). Statement C is false (3, 6, 9, 12, ... has odd and even). Statement D is false ($5 \times 6 = 30$ is even).
- 14) **Choice C is correct.** **(3.MD.B.3)** Rio: $8 \times 3 = 24$. Alex: $5 \times 3 = 15$. Fewer: $24 - 15 = 9$.
- 15) **Choice B is correct.** **(3.MD.C.5b)** $5 \times 6 = 30$ unit square pavers.
- 16) **The correct answer is 48.** **(3.OA.B.5)** $6 \times 5 = 30$ and $6 \times 3 = 18$, so $30 + 18 = 48$.
- 17) **Choice B is correct.** **(3.MD.C.7d)** Left rectangle: $3 \times 2 = 6$ sq units. Right rectangle: $3 \times 1 = 3$ sq units. Total: $6 + 3 = 9$ sq units.
- 18) **Choice C is correct.** **(3.MD.C.7c)** 3×5 and 2×4 do not share a matching side length. To use this area model, the two smaller rectangles need one matching dimension.
- 19) **Choice A is correct.** **(3.MD.C.5a)** The rectangle is 4 by 2, so it has 8 unit squares total. A vertical line through the middle divides it into two 2-by-2 sections of 4 each.
- 20) **Choice A is correct.** **(3.OA.A.2)** If $3 \times 6 = 18$, then the related division facts are $18 \div 3 = 6$ and $18 \div 6 = 3$.
- 21) **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.
- 22) **Choice C is correct.** **(3.NF.A.2)** $\frac{1}{3}$ and $\frac{2}{6}$ mark the same point on the number line from 0 to 1. They represent the same fraction.
- 23) **Choice B is correct.** **(3.NF.A.3c)** $10 \text{ halves} \div 2 \text{ halves per whole} = 10 \div 2 = 5 \text{ wholes}$.
- 24) **Choice B is correct.** **(3.G.A.1)** A square has all the properties of a rectangle (4 sides, 4 right angles) plus the additional property of having all equal sides. So every square is a rectangle, but not every rectangle is a square.
- 25) **The correct answer is 9 pencils.** **(3.MD.B.4)** Add all X's: $2 + 1 + 3 + 2 + 1 = 9$ pencils total.
- 26) **Choice A is correct.** **(3.MD.C.6)** The rectangle has 5 units wide and 2 units tall. $5 \times 2 = 10$ sq units.
- 27) **The correct answer is 8.** **(3.OA.C.7)** $72 \div 9 = 8$.
- 28) **Choice D is correct.** **(3.MD.C.5)** For a square: $8 \times 8 = 64$ square inches.
- 29) **Choice B is correct.** **(3.MD.A.2)** $3 \text{ kg} = 3000 \text{ g}$. Add: $3000 + 500 = 3500 \text{ g}$.
- 30) **Choice B is correct.** **(3.G.A.2)** Three shaded parts out of six equal parts is $\frac{3}{6}$.



A Quiet Word From Your Mentor

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 8 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

Mentor's note: on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

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

Jay Daie

Your Math Mentor

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PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



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Questions



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Question
Types



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