

8

Minnesota

MCA-III

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



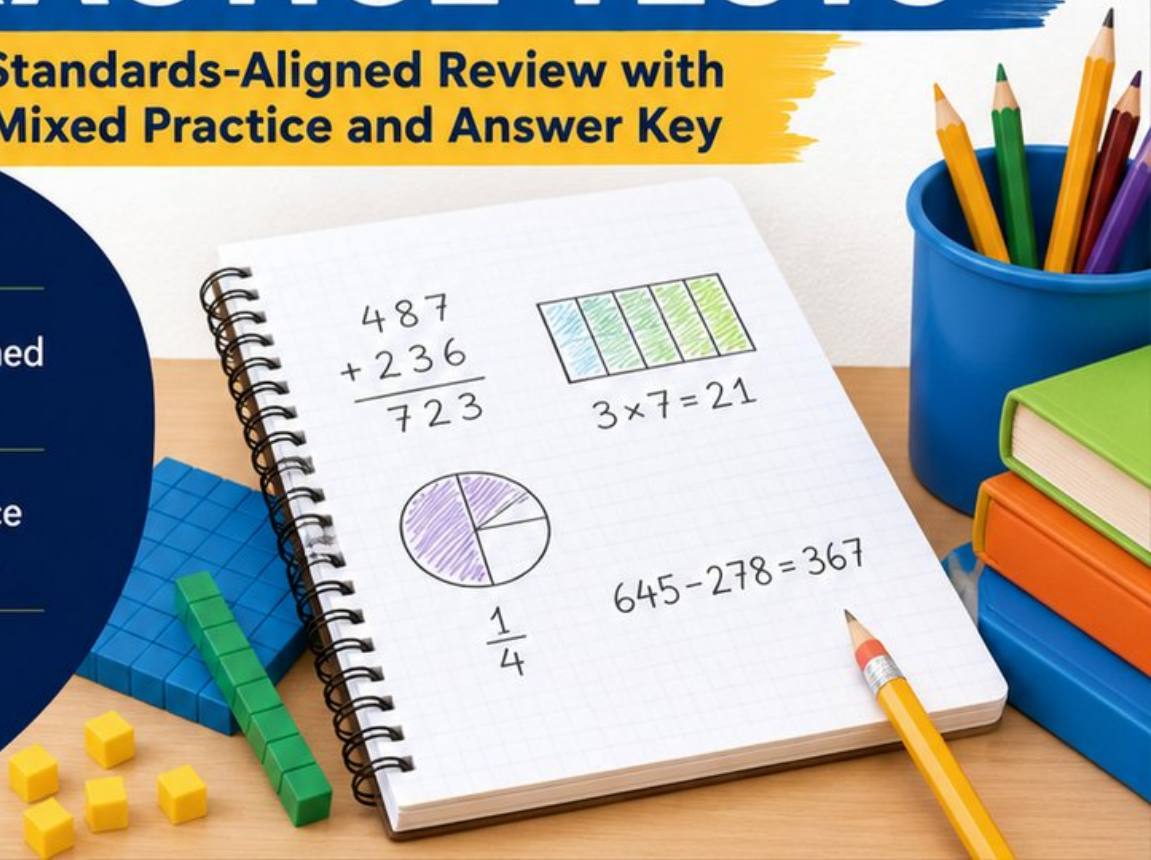
Standards-Aligned
Questions



Build Confidence
and Math Skills

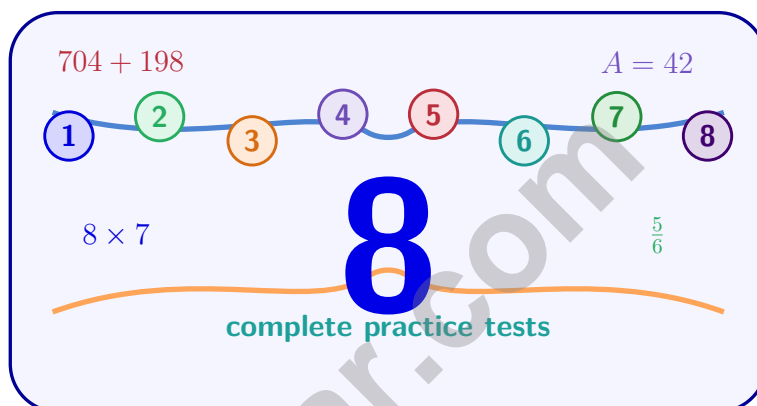


Answer Key
Included



8 Minnesota MCA-III 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.

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Minnesota, 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 Minnesota MCA-III. 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.

Minnesota has lake maps, river trails, snowy parks, northern lights, and calm classroom focus, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and stay accurate even when the work gets long.

Your Minnesota 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 Minnesota 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 Minnesota, 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 MCA-III

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

Minnesota focus: The practice path starts with lake maps, river trails, snowy parks, northern lights, and calm classroom focus. Strong math uses the same idea: know the path, follow the clues, and check the final answer.

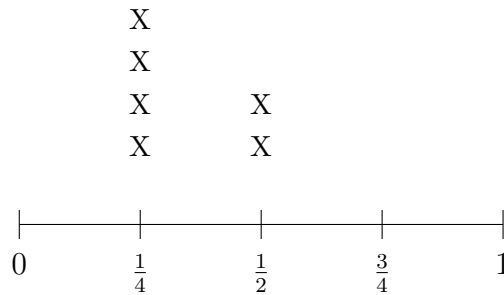


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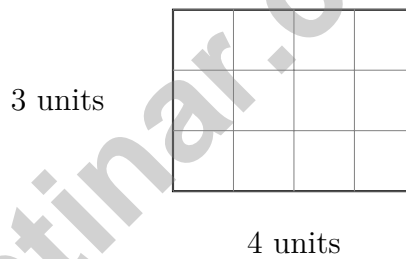
1) Ava measured rainfall amounts in inches: $0, \frac{1}{4}, \frac{1}{2}, \frac{3}{4}, 1$.



How many more days had $\frac{1}{4}$ inch of rain than $\frac{1}{2}$ inch of rain?

- A. 1 day C. 3 days
 B. 2 days D. 4 days

2) Look at the rectangle below. How many square units cover the entire shape?



- A. 7 square units C. 14 square units
 B. 8 square units D. 12 square units

3) A coffee maker brews 6 cups of coffee. Each cup holds 200 mL. How many milliliters of coffee does the maker brew?

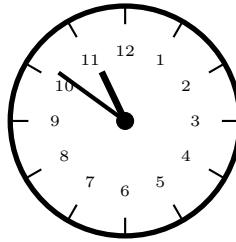
- A. 200 mL C. 1000 mL
 B. 600 mL D. 1200 mL

4) Mia's desk is a square with sides of 4 feet. What is the area of her desk?

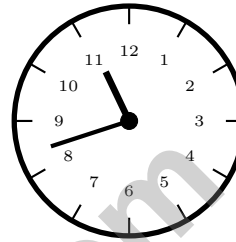
- A. 8 sq ft C. 16 sq ft
 B. 12 sq ft D. 20 sq ft

5) Which clock shows a time of 10 : 51?

Option 1



Option 2



- A. Option 1 C. Neither
 B. Option 2 D. Both

6) A cake is divided into 6 equal pieces. If you eat $\frac{1}{6}$, $\frac{1}{6}$, and $\frac{1}{6}$, how much of the cake do you eat in total?

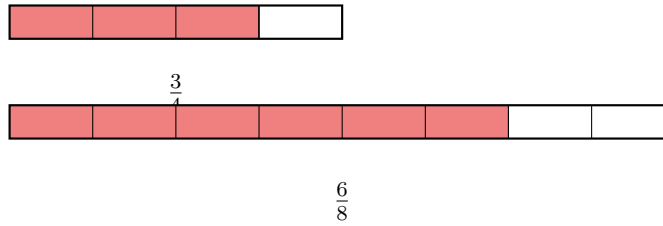
- A. $\frac{3}{6}$ C. $\frac{1}{18}$
 B. $\frac{1}{6}$ D. $\frac{3}{1}$

7) Find $6 \times 5 + 6 \times 3$.



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8) 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
- 9) Ava ate $\frac{1}{2}$ of a pizza. Ben ate $\frac{4}{8}$ of a pizza. Did they eat the same amount?
- A. Yes, they ate the same amount C. No, Ben ate more
 B. No, Ava ate more D. Cannot be determined
- 10) Which list shows the multiples of 4 from 1 to 20?
- A. 1, 5, 9, 13, 17 C. 2, 6, 10, 14, 18
 B. 3, 7, 11, 15, 19 D. 4, 8, 12, 16, 20
- 11) 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



1) A number line from 0 to 1 has one tick mark in the middle. What is the unit fraction?

A. $\frac{1}{2}$

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

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

D. $\frac{1}{5}$

2) A unit square can be measured in different units. A unit square measured in inches is how many square inches?

 A. 1 square inch B. 2 square inches C. 4 square inches D. 0.5 square inches

3) What is 8×7 ?

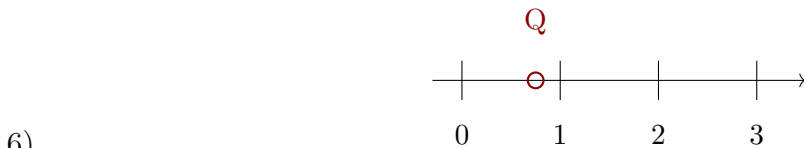
 A. 48 B. 54 C. 56 D. 63

4) Mia had some stickers. She gave away 145 stickers and has 238 left. How many stickers did Mia have at the start?

5) Eli has $\frac{8}{2}$ sheets of stickers. Each sheet is one whole. How many whole sheets does he have?

 A. 2 B. 4 C. 8 D. 6

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The number line from 0 to 3 is divided into 4 equal parts. What fraction of the distance from 0 to 3 is point Q?

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

7) Which is NOT equivalent to $\frac{2}{4}$?

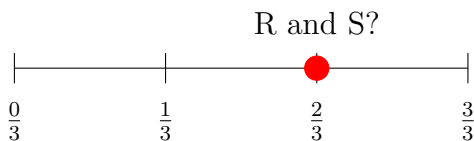
- A. $\frac{4}{8}$
- B. $\frac{1}{2}$
- C. $\frac{3}{6}$
- D. $\frac{3}{4}$

8) A number line shows 0 to 1 divided into 3 equal parts. What fraction is at the first tick?



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

9) 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.

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 B is correct.** (3.4.1.1) At $\frac{1}{4}$ inch there are 4 X's. At $\frac{1}{2}$ inch there are 2 X's. The difference is $4 - 2 = 2$ days.
- 2) **Choice D is correct.** (3.1.2.3) Count the rows: 3 rows. Count the columns: 4 columns. Multiply: $3 \times 4 = 12$ square units.
- 3) **Choice D is correct.** (3.1.2.1) Multiply: $6 \times 200 = 1200$ mL.
- 4) **Choice C is correct.** (3.3.2.1) Area of a square = $4 \times 4 = 16$ square feet.
- 5) **Choice A is correct.** (3.2.1.1) At 10 : 51, the minute hand points to 51 minutes, just past the 10. The hour hand is between 10 and 11, close to 11. Option 1 shows this accurately.
- 6) **Choice A is correct.** (3.1.3.2) When you count three unit fractions of $\frac{1}{6}$, you add: $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{3}{6}$.
- 7) **The correct answer is 48.** (3.1.2.5) $6 \times 5 = 30$ and $6 \times 3 = 18$, so $30 + 18 = 48$.
- 8) **Choice A is correct.** (3.1.3.3) Both bars show the same amount shaded. $\frac{3}{4}$ and $\frac{6}{8}$ are equivalent.
- 9) **Choice A is correct.** (3.1.3.1) $\frac{1}{2} = \frac{4}{8}$ because $\frac{1 \times 4}{2 \times 4} = \frac{4}{8}$. Both Ava and Ben ate the same amount.
- 10) **Choice D is correct.** (3.2.1.1) Multiples of 4 follow the pattern 4, 8, 12, 16, 20, increasing by 4 each time.
- 11) **Choice D is correct.** (3.2.2.1) Divide: $42 \div 6 = 7$ marbles per bag. Check: $6 \times 7 = 42$.
- 12) **Choice A is correct.** (3.1.3.1) Both smaller rectangles need the same 6-unit side. Then the other sides, 4 and 3, join to make the full rectangle.
- 13) **Choice B is correct.** (3.1.3.2) $\frac{2}{3}$ of a square divided into 3 parts means coloring 2 parts.
- 14) **Choices A and C are correct.** (3.1.2.3) Choices A and C involve finding a total from equal groups. B, D, and E involve subtraction or addition of separate quantities.
- 15) **Choice C is correct.** (3.4.1.1) Count the rows: 3 rows. Count across: 5 unit squares in each row. Total: $5 + 5 + 5 = 15$ unit squares cover the rectangle.
- 16) **Choice A is correct.** (3.1.2.5) Since $8 \times 20 = 160$, the missing number is 8. Check: $8 \times 2 = 16$, add a zero to get 160.
- 17) **Choice B is correct.** (3.1.3.1) Five ticks (including 0 and 1) create four equal segments. Each segment is $\frac{1}{4}$.
- 18) **Choice C is correct.** (3.1.3.1) Counting ticks from 0, the dot is at the 4th mark out of 6 equal parts, so it is $\frac{4}{6}$.
- 19) **The correct answer is 4 right angles.** (3.3.1.1) A square has 4 right angles.
- 20) **Choice D is correct.** (3.2.2.2) $30 \div 5 = \square$ means $\square \times 5 = 30$. Since $6 \times 5 = 30$, there are 6 cookies in each bag.
- 21) **Choice B is correct.** (3.1.2.3) Area = $2 \times 3 = 6$ square cm.
- 22) **Choice B is correct.** (3.1.3.1) Point W at 2 is the 4th half-mark: $\frac{4}{2} = 2$.
- 23) **Choice C is correct.** (3.1.3.1) $\frac{2}{3} = \frac{4}{6}$ because both represent two-thirds of the board.
- 24) **The correct answer is 7.** (3.1.2.5) $35 \div 5 = 7$.
- 25) **Choice D is correct.** (3.1.3.1) 4×5 means "4 groups of 5" (or $5 + 5 + 5 + 5$). Each group has 5 objects, and there are 4 groups.
- 26) **Choice A is correct.** (3.1.1.4) The tens digit is 1. Since $1 < 5$, round down: 916 rounds to 900.
- 27) **Choice B is correct.** (3.4.1.1) Kat's bar is 4 units, which is tallest. $4 \times 5 = 20$ books, the most.
- 28) **Choice C is correct.** (3.1.3.3) A 6×2 arrangement of unit squares has area $6 \times 2 = 12$ square units.
- 29) **Choice C is correct.** (3.3.1.1) Add the areas: $25 + 14 = 39$ square units.
- 30) **Choice A is correct.** (3.1.2.1) $378 + 215$: ones $8 + 5 = 13$ (write 3, carry 1), tens $7 + 1 + 1 = 9$, hundreds $3 + 2 = 5$. Answer: 593.

Practice Test 2 Answers and Explanations

- 1) **Choice A is correct.** (3.1.2.3) Multiply: 6 baskets \times 7 apples per basket = 42 apples.



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Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 8 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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

Jay Daie

Your Math Trail Guide

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



EACH PRACTICE TEST INCLUDES:



Standards-
Aligned
Questions



Variety of
Question
Types



Real-World
Math
Applications



Step-by-Step
Progress
Tracking



Build Skills
and Boost
Confidence

COVERS ALL ESSENTIAL TOPICS

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
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