

# 5 Minnesota MCA III

Standards-Aligned Review with  
Mixed Practice and Answer Key



# 5 Minnesota MCA-III Grade 4 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Five complete 30-question Grade 4 practice rounds for MCA-III, built around lake paths, snowy mornings, and calm number sense, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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# Welcome, Minnesota Math Explorer!

Five steady rounds on the North Star math route

This book gives you five full Grade 4 practice tests for MCA-III. Each round uses lake paths, snowy mornings, and calm number sense to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## Minnesota Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

## How to Use This Book

A ten-session routine for Minnesota MCA-III review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the North Star math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

**Good rhythm:** Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



## What Is Inside?

Five tests, 150 questions, and a full MCA-III review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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For more practice  
& answers

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1) Find  $3 \times \frac{5}{6}$  as a mixed number.

2) Which letter has no line of symmetry?

A. *S*

C. *U*

B. *T*

D. *W*

3) What is 14,285 rounded to the nearest ten?

A. 14,280

C. 14,300

B. 14,200

D. 14,290

4) A field is 80 meters long. A farmer walks the length of the field 6 times. What is the total distance walked?



- 5) 

Finn has 4 toy trucks. Owen has 2 times as many toy trucks as Finn. How many toy trucks does Owen have?

- A. 6  C. 12  
 B. 16  D. 8
- 6) A ribbon is  $\frac{9}{10}$  meter long. How many tenths is that?  
 A. 1 tenth  C. 10 tenths  
 B. 9 tenths  D. 19 tenths
- 7) How many degrees are in  $\frac{3}{4}$  of a turn?  
 A.  $180^\circ$   C.  $270^\circ$   
 B.  $225^\circ$   D.  $300^\circ$
- 8) Look at the place-value chart. Which digit, when moved to the thousands place, would have a value of 5,000?

Thousands	Hundreds	Tens	Ones
2	5	7	9

- A. The 2  C. The 7  
 B. The 9  D. The 5



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9) During a relay race, the first runner completes  $\frac{8}{10}$  of a track. The second runner completes  $\frac{2}{10}$  of the track. Together, did they complete the entire track ( $\frac{10}{10}$ )?

A. Yes, exactly  $\frac{10}{10}$

C. Yes, they completed  $\frac{10}{20}$

B. No, they completed  $\frac{6}{10}$

D. No, they completed  $\frac{10}{8}$

10) Ava listed multiples of  $\frac{1}{2}$ :  $\frac{1}{2}, \frac{2}{2}, \frac{3}{2}, \frac{4}{2}, \frac{5}{2}$ . Which is correct?

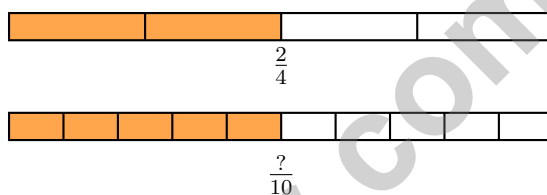
A. Only  $\frac{1}{2}$  and  $\frac{2}{2}$

C. Only even numerators

B. All are correct multiples

D. None are multiples

11) Look at the two fraction strips. Both strips are the same length.



What number replaces the question mark?

A. 3

C. 5

B. 4

D. 6

12) Ava reads 8 pages a day for 12 days. Noah reads 10 pages a day for 9 days. How many more pages does Ava read than Noah?

A. 2 pages

C. 26 pages

B. 18 pages

D. 6 pages



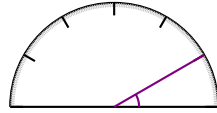
1) Round 56,841 to the nearest thousand.

A. 56,000

C. 56,800

B. 60,000

D. 57,000



2)

What is the measure of the angle shown?

A. 30 degrees

C. 60 degrees

B. 45 degrees

D. 90 degrees

3) Noah walks  $\frac{2}{8}$  mile each day. How far does he walk in 4 days?

A.  $\frac{8}{8}$  mile or 1 mile

C.  $\frac{6}{8}$  mile

B.  $\frac{2}{32}$  mile

D.  $\frac{4}{8}$  mile

4) A decreasing pattern starts at 96 and divides by 2 each time. What is the 4th term?

A. 6

C. 24

B. 48

D. 12

5) A model shows 3 tiles, each equal to  $\frac{2}{3}$ . What is the total?



A.  $\frac{2}{3}$

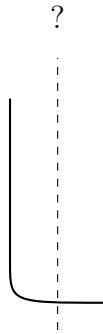
C.  $\frac{6}{3}$

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

D.  $\frac{2}{9}$



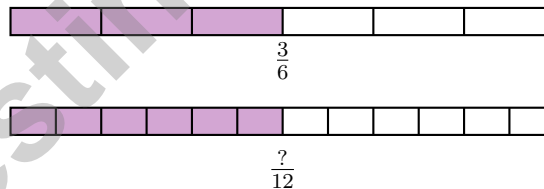
6) Look at the letter  $U$  below. Where is its line of symmetry?



- A. Horizontally across the middle       C. Diagonally from corner to corner  
 B. Vertically down the middle       D. It has no line of symmetry
- 7) A bead weighs  $\frac{1}{10}$  gram. How much do 9 beads weigh?

- A.  $\frac{1}{90}$  gram       C.  $\frac{10}{9}$  grams  
 B.  $\frac{9}{10}$  grams       D.  $\frac{9}{90}$  gram

8) Look at the two fraction bars. Both are the same length.



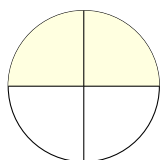
What number replaces the question mark?

- A. 4       C. 6  
 B. 5       D. 8

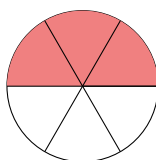


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- 1) Two circles are the same size. Circle 1 shows  $\frac{2}{4}$  shaded. Circle 2 shows  $\frac{3}{6}$  shaded. Which statement is true?



Circle 1:  $\frac{2}{4}$



Circle 2:  $\frac{3}{6}$

- A. Circle 1 is more shaded  
 B. Circle 2 is more shaded  
 C. Both circles are equally shaded  
 D. Cannot compare circles of different sizes
- 2) Look at the base-ten model below. What number does it represent?



- A. 6,142  
 B. 4,612  
 C. 1,462  
 D. 4,162
- 3) A spinner makes a  $\frac{1}{4}$  turn. How many degrees does it rotate?
- A.  $45^\circ$   
 B.  $60^\circ$   
 C.  $90^\circ$   
 D.  $120^\circ$
- 4) A student walks  $\frac{6}{8}$  of a mile. How many eighths of a mile is that?
- A. 6 eighths  
 B. 8 eighths  
 C. 2 eighths  
 D. 14 eighths



5) A rectangle is divided into 6 equal parts. 4 parts are colored blue. What fraction is blue, shown as a sum of unit fractions?

A.  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$

B.  $\frac{2}{6} + \frac{2}{6}$

C.  $\frac{4}{6} + \frac{2}{6}$

D.  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

6) The letter  $V$  has how many lines of symmetry?

 A. 0 B. 1 C. 2 D. 3

7) Write  $\frac{6}{4}$  as a mixed number.

8) A class recorded toy block heights in fourths of an inch:  $\frac{1}{4}$ ,  $\frac{2}{4}$ ,  $\frac{3}{4}$ ,  $\frac{1}{4}$ ,  $\frac{2}{4}$ ,  $\frac{1}{4}$ . When plotted, what is the mode (most common measurement)?

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

9) What is  $7\frac{4}{10} - 2\frac{5}{10}$ ?

 A.  $4\frac{8}{10}$  B.  $4\frac{9}{10}$  C.  $5\frac{1}{10}$  D.  $5\frac{9}{10}$ 

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## Practice Test Answer Keys

**How to use this section with a Grade 4 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

- The correct answer is  $2\frac{1}{2}$ .** (4.1.1.2) We take 3 copies of  $\frac{5}{6}$ . Multiply:  $3 \times \frac{5}{6} = \frac{3 \times 5}{6} = \frac{15}{6} = 2\frac{1}{2}$ . The answer is  $2\frac{1}{2}$ .
- Choice A is correct.** (4.3.3.4) The letter *S* curves one way at the top and the opposite way at the bottom, like a snake. No fold line can make the two halves match. The answer is letter **S**.
- Choice D is correct.** (4.1.1.4) We're rounding to the nearest ten. Look at the ones digit: 5. Since  $5 \geq 5$ , we round UP! The tens digit changes from 8 to 9, giving us **14,290**. ✓
- The correct answer is 480 m.** (4.1.2.5) The field is 80 meters long. The farmer walks it 6 times. Multiply:  $80 \times 6 = 480$  meters. The total distance is **480** meters.
- Choice D is correct.** (4.2.2.1) Owen's group has 2 rows of 4 trucks—"2 times as many." Multiply:  $2 \times 4 = 8$  toy trucks.
- Choice B is correct.** (4.1.1.2) The numerator 9 tells us exactly how many tenths we have. So  $\frac{9}{10} = 9 \times \frac{1}{10}$ , which means we have **9** tenths.
- Choice C is correct.** (4.3.2.1) Three-quarters of the circle is  $\frac{3}{4} \times 360^\circ = \mathbf{270^\circ}$ .
- Choice D is correct.** (4.1.1.4) From the chart, the digit 5 is in the hundreds place. If moved to the thousands place, its value becomes  $5 \times 1,000 = 5,000$ . Answer: The **5**. ✓
- Choice A is correct.** (4.1.2.6) In a relay race, one runner then another. Add their distances:  $\frac{8}{10} + \frac{2}{10} = \frac{10}{10}$ , which means they completed the entire track together!
- Choice B is correct.** (4.1.1.2) Every fraction in Ava's list counts by halves:  $\frac{1}{2}, \frac{2}{2}, \frac{3}{2}, \frac{4}{2}, \frac{5}{2}$ . Each one is a multiple of  $\frac{1}{2}$ .
- Choice C is correct.** (4.1.2.1) First simplify the first fraction:  $\frac{2}{4} = \frac{1}{2}$ . Now find the equivalent with denominator 10:  $\frac{1}{2} = \frac{1 \times 5}{2 \times 5} = \frac{5}{10}$ .
- Choice D is correct.** (4.1.1.4) Three steps! Step 1: Ava's total:  $8 \times 12 = 96$  pages. Step 2: Noah's total:  $10 \times 9 = 90$  pages. Step 3: "how many more" is a subtraction:  $96 - 90 = 6$  pages.
- Choice C is correct.** (4.1.2.1) First, simplify:  $\frac{2}{6} = \frac{1}{3}$  (divide both by 2). So  $\frac{2}{6}$  lands exactly at  $\frac{1}{3}$  on the number line.
- The correct answer is B, C.** (4.2.1.1) Check each option. A: 50 cm = 0.5 m, wrong. B: 500 cm = 5 m, correct! C: 5,000 mm = 5 m, correct! D: 5,000 cm = 50 m, wrong. E: 5 m = 0.005 km, not 0.05 km. The correct answers are **B** and **C**.
- Choice B is correct.** (4.1.2.6) Same denominator rule:  $7 + 2 = 9$  twelfths. Answer:  $\frac{9}{12}$ .
- Choice B is correct.** (4.3.2.1) The water spray sweeps in two bursts. Add the angles:  $96^\circ + 54^\circ = \mathbf{150^\circ}$ .
- Choice B is correct.** (4.1.1.2) On the number line, each jump moves forward by  $\frac{1}{2}$ . Four jumps starting from 0 land us at 2, showing  $4 \times \frac{1}{2} = 2$ .
- The correct answer is  $\frac{7}{10}$ .** (4.1.2.6) Carlos uses 7 pieces out of 10, which is  $\frac{7}{10}$ . As unit fractions:  $\frac{1}{10} + \frac{1}{10} + \dots + \frac{1}{10}$ .  
7 copies
- Choice D is correct.** (4.1.1.4) Reading from right to left: ones, tens, hundreds, thousands. The 5 is in the tens place ✓
- Choice C is correct.** (4.3.2.1) Mia's angle of  $60^\circ$  is composed of **60** one-degree angle units.
- Choice B is correct.** (4.1.2.3) Count X marks at values  $\leq 1$  inch. At  $\frac{1}{2}$  inch: 1 mark. At 1 inch: 2 marks. Total:  $1 + 2 = \mathbf{3}$  marks.
- Choice D is correct.** (4.1.2.6) Since  $\frac{2}{10} < \frac{4}{10}$ , regroup:  $3\frac{2}{10} = 2\frac{12}{10}$ . Subtract:  $2\frac{12}{10} - 1\frac{4}{10} = \mathbf{1\frac{8}{10}}$ .
- Choice D is correct.** (4.1.1.6) Use the distributive property:  $29 \times (10 + 2) = 290 + 58 = \mathbf{348}$ .
- Choice B is correct.** (4.3.2.2) A right angle is a special angle that measures exactly  $90^\circ$ . Think of the corner of your notebook — that's a right angle! Acute angles are smaller, obtuse angles are bigger, and straight angles are perfectly flat at  $180^\circ$ .
- Choice C is correct.** (4.2.2.1) When you see "times as many," think *multiplication*! "6 times as many as 4" becomes  $6 \times 4$ , which equals 24. So choice C,  $24 = 6 \times 4$ , is the equation that captures that idea.
- Choice A is correct.** (4.3.2.1) Diego needs a measure between  $45^\circ$  and  $60^\circ$ . At  $53^\circ$ , this falls right in that range. The other choices fall outside or at the edges of his measurement range. The answer is **53** degrees.



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Cheer Squad Final Pep Talk

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## Hi, Math Star!

◇ 5 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 5 times. That's real confidence. It is not pretend! ★

### Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

**Cheer tip:** on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Cheerleader

# 5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

With 5 full-length practice tests, a variety of question types, and detailed answer explanations, students get the practice they need to understand math, strengthen critical thinking, and perform their best on test day and beyond.

Ideal for classroom use, homework, test preparation, and extra practice at home.

## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

★ CONFIDENCE TODAY.  
SUCCESS TOMORROW!

## WHAT STUDENTS WILL GAIN



### Stronger Math Skills

Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Test Confidence

Become familiar with test-style questions and formats.



### Track Progress

Measure growth across multiple practice tests.



### Master Key Concepts

Reinforce important skills aligned with grade-level standards.



### Prepare for Success

Build the confidence needed to do your best on test day.

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
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- ✓ And More!



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5 Full-Length Practice Tests



Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included

A+