

# 8

# Minnesota

# MCA III

# GRADE 4

# PRACTICE TESTS



1

$$2 \times 3 = 6$$

3

5

$$2 \times 3 = 6$$

2

4



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

**COMPREHENSIVE  
TEST PREP**

Includes Solutions

# 8 Minnesota MCA-III Grade 4 Math Practice Tests

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



Eight 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**



# Copyright ©

## Testinar Inc



Published by Testinar Inc

[Testinar.com](http://Testinar.com)

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



*Copyright ©*

# Welcome, Minnesota Math Explorer!

Eight steady rounds on the North Star math route

This book gives you eight 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?

Eight tests, 240 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 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 6–8	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

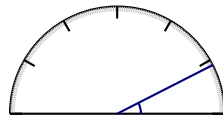
The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



Scan me!  
For more practice  
& answers

# Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	25
★ Practice Test 3	_____	36
★ Practice Test 4	_____	47
★ Practice Test 5	_____	59
★ Practice Test 6	_____	71
★ Practice Test 7	_____	83
★ Practice Test 8	_____	95
<b>Practice Test Answer Keys</b>	_____	<b>106</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>107</b>



1)

What is the measure of the angle shown?

- A. 25 degrees                       C. 30 degrees  
 B. 27 degrees                       D. 32 degrees

2) Subtract:  $6,320 - 1,485 = ?$ 

- A. 4,835                               C. 4,935  
 B. 5,835                               D. 5,935

3) Which is true?

- A.  $\frac{4}{10} > \frac{8}{10}$                                C.  $\frac{4}{10} < \frac{8}{10}$   
 B.  $\frac{4}{10} = \frac{8}{10}$                                D. Cannot compare

4) A bag of flour weighs  $5\frac{3}{10}$  pounds. After using some flour,  $2\frac{1}{10}$  pounds remain. How much flour was used?

- A.  $2\frac{2}{10}$                                        C.  $7\frac{4}{10}$   
 B.  $3\frac{2}{10}$                                        D.  $3\frac{1}{10}$

5) Aisha has 5 pet fish. Kai has 4 times as many fish as Aisha. How many fish does Kai have?

- A. 9     C. 25  
 B. 15     D. 20



6) Noah is training for a race. Each day he jogs  $\frac{1}{2}$  mile. If he trains for 4 days, how far does he jog in total?

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

7) A bookstore has 3,041 books on the shelves. How many complete hundreds of books are on the shelves?

- A. 3  
 B. 300  
 C. 4  
 D. 30

8) Which diagram shows Ray  $PQ$ ?

A.



B.



C.



D.



- A. Diagram A  
 B. Diagram B  
 C. Diagram C  
 D. Diagram D

9) Which shape can be described as having four equal sides, two pairs of parallel sides, and four right angles?

- A. Trapezoid  
 B. Rhombus  
 C. Square  
 D. Rectangle

10) A farmer has 8,254 apples. Round to the nearest hundred.

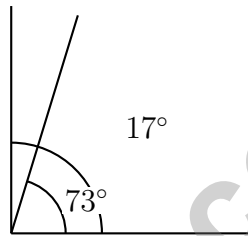
- A. 8,200  
 B. 8,250  
 C. 8,300  
 D. 8,000



Scan me!  
For more practice  
& answers

- 11) A rectangular poster is 12 inches long and 8 inches wide. How much paper does it cover (what is its area)?

- 12) A door opens  $73^\circ$ . Then it opens another  $17^\circ$  wider. What is the total angle the door has opened?



- A.  $56^\circ$                        C.  $73^\circ$   
 B.  $90^\circ$                        D.  $100^\circ$
- 13) Which number is less?

	Thousands	Hundreds	Tens	Ones
Number A	7	2	6	4
Number B	7	2	6	5

- A. They are equal                       C. 7,264  
 B. Cannot determine                       D. 7,265



1) What is  $\frac{9}{10} + \frac{1}{10}$ ?



$\frac{9}{10}$  (light red) +  $\frac{1}{10}$  (dark red)

A.  $\frac{10}{10}$  or 1

C.  $\frac{8}{10}$

B.  $\frac{10}{20}$

D.  $\frac{1}{10}$

2) Henry jumps  $\frac{1}{2}$  meter 9 times. How far does he jump altogether?

A.  $\frac{1}{18}$  meter

C.  $\frac{9}{1}$  meter

B.  $\frac{9}{2}$  meters or  $4\frac{1}{2}$  meters

D.  $\frac{10}{2}$  meters

3)



What is the measure of angle  $\gamma$ ?

A.  $45^\circ$

C.  $90^\circ$

B.  $60^\circ$

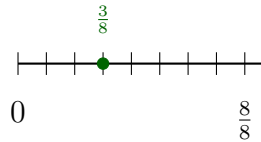
D.  $135^\circ$

4) Find  $3\frac{2}{4} + 1\frac{3}{4}$ .



Scan me!  
For more practice  
& answers

5) Noah skipped by  $\frac{1}{8}$  along a number line. He stopped at  $\frac{3}{8}$ . How many skips did he make?



- A. 1 skip
- B. 2 skips
- C. 3 skips
- D. 4 skips

6) Look at the place-value chart. Which statement is true?

Thousands	Hundreds	Tens	Ones
4	2	6	8

- A. The tens digit equals 8.
- B. The thousands digit is in the tens place.
- C. The hundreds place has value 20.
- D. The hundreds place has value 200.

7) A book club buys 9 bundles of books. Each bundle has 15 books. If they distribute all books to 5 libraries equally, how many books does each library receive?

- A. 24 books
- B. 25 books
- C. 30 books
- D. 27 books

8) Complete the sequence: 2, 5, 10, 17, \_\_

- A. 24
- B. 30
- C. 28
- D. 26

1) What is  $8\frac{3}{4} - 5\frac{1}{4}$ ?

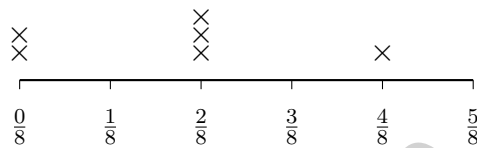
A.  $2\frac{2}{4}$

C.  $3\frac{2}{4}$

B.  $3\frac{1}{4}$

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

2) Look at this line plot with eighths:



How many total data points does this line plot show?

A. 4

C. 6

B. 5

D. 7

3) Order these fractions from least to greatest:  $\frac{1}{6}$ ,  $\frac{5}{12}$ ,  $\frac{1}{2}$ .

A.  $\frac{1}{2}$ ,  $\frac{5}{12}$ ,  $\frac{1}{6}$

C.  $\frac{5}{12}$ ,  $\frac{1}{6}$ ,  $\frac{1}{2}$

B.  $\frac{1}{6}$ ,  $\frac{5}{12}$ ,  $\frac{1}{2}$

D.  $\frac{1}{2}$ ,  $\frac{1}{6}$ ,  $\frac{5}{12}$

4) Noah's school library has 15,678 books. The library receives 5,432 new books. How many books does the library have now?

A. 21,110

C. 20,110

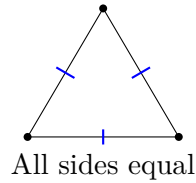
B. 21,010

D. 21,210

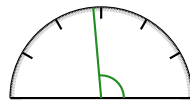


Scan me!  
For more practice  
& answers

- 5) Look at this triangle with all three sides marked as equal with tick marks. What type of triangle is it?



- A. Scalene triangle                       C. Equilateral triangle  
 B. Isosceles triangle                     D. Right triangle
- 6) All of the following figures have at least one line of symmetry **except** which one?
- A. An equilateral triangle               C. A slanted parallelogram with unequal adjacent sides  
 B. A rectangle                               D. An isosceles triangle
- 7) Which of the following best describes a line segment?
- A. A line that goes on forever in both directions       C. A straight path that has a start but goes on forever in one direction  
 B. A straight path between two points with a definite start and end       D. A point that marks the middle of a line



- 8) Is this angle acute, right, obtuse, or straight?

- A. Acute                                       C. Obtuse  
 B. Right                                       D. Straight



## 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.**

Testinar.com



## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice B is correct.** (4.3.2.1) The ray points to the  $27^\circ$  mark, which is between  $20^\circ$  and  $30^\circ$ . Since  $27^\circ < 90^\circ$ , this is a small acute angle. The answer is **27** degrees.
- Choice A is correct.** (4.1.1.3) Start in the ones place:  $0 < 5$ , so regroup one ten as 10 ones. Then subtract from right to left carefully. The answer is **4,835**.
- Choice C is correct.** (4.1.2.1) Same denominator, so compare numerators:  $4 < 8$  means  $\frac{4}{10} < \frac{8}{10}$ .
- Choice B is correct.** (4.1.2.6) The flour bag started full, and some was used. Find how much was used by subtracting what remains:  $5\frac{3}{10} - 2\frac{1}{10} = 3\frac{2}{10}$  pounds of flour was used.
- Choice D is correct.** (4.2.2.1) “4 times as many” is a multiplication signal. Kai has 4 groups of Aisha’s 5 fish:  $4 \times 5 = 20$  fish.
- Choice C is correct.** (4.1.1.2) Noah jogs  $\frac{1}{2}$  mile each day for 4 days. We multiply:  $4 \times \frac{1}{2} = \frac{4}{2} = 2$  miles.
- Choice D is correct.** (4.1.1.4) “How many complete hundreds” is just asking how many *full groups* of 100 fit in 3,041. Skip-count by 100s: 100, 200, ..., 3,000—that’s 30 groups. The extra 41 books left over isn’t enough for another group of 100. So the bookstore has **30** complete hundreds. ✓
- Choice B is correct.** (4.3.2.2) Ray  $PQ$  begins at  $P$  — the first letter — and shoots forever through  $Q$ . The arrow starting at  $P$  in Diagram B shows this perfectly.
- Choice C is correct.** (4.3.1.1) A square has all four of these properties combined: four equal sides, two pairs of parallel sides, and four right angles. No other quadrilateral has all these properties. The answer is **C**.
- Choice C is correct.** (4.1.1.4) We’re rounding to the nearest hundred. Look at the tens digit: 5. Since  $5 \geq 5$ , we round UP! The hundreds digit changes from 2 to 3, so the farmer has about **8,300** apples. ✓
- The correct answer is 96 sq in.** (4.3.2.4) Poster area =  $12 \times 8 = 96$  sq in.
- Choice B is correct.** (4.3.2.1) The door opens in two steps. Add both angles:  $73^\circ + 17^\circ = 90^\circ$ .
- Choice C is correct.** (4.1.1.4) All digits match except the ones place. A has 4 ones, B has 5 ones. Since  $4 < 5$ , 7,264 is less ✓
- The correct answer is A, C.** (4.3.2.1) Statement A is correct:  $50^\circ$  contains **50** one-degree angles. Statement C is correct: a right angle measures  $90^\circ$  and contains **90** one-degree angles. Statement B is wrong (double-counting). Statement D is wrong (straight angle is  $180^\circ$ , not  $90^\circ$ ). Statement E is wrong (full circle is  $360^\circ$ , not  $180^\circ$ ).
- Choice B is correct.** (4.1.2.3) Four tenths equals:  $\frac{4}{10} = \frac{40}{100} = 0.40 = 0.4$ .
- The correct answer is 0.64.** (4.1.2.3) Always compare tenths first—they have more weight than hundredths. 0.64 has 6 tenths; 0.46 has 4 tenths. Since  $6 > 4$ , **0.64** is greater. (Once tenths differ, the hundredths don’t matter.) ✓
- The correct answer is 35.** (4.2.2.1) Two steps. Step 1: the second basket has  $5 \times 6 = 30$  apples. Step 2: add the first basket for the total:  $5 + 30 = 35$  apples.
- Choice D is correct.** (4.1.2.6) Subtract to find the missing addend:  $5\frac{2}{5} - 2\frac{3}{5}$ . Since  $\frac{2}{5} < \frac{3}{5}$ , regroup:  $5\frac{2}{5} = 4\frac{7}{5}$ . Subtract:  $4\frac{7}{5} - 2\frac{3}{5} = 2\frac{4}{5}$ .
- Choice B is correct.** (4.2.1.1) Since 1 yard = 3 feet, divide:  $50 \div 3 = 16$  remainder 2. The answer is **16** whole yards.
- Choice A is correct.** (4.1.1.6) Split by tens:  $16 \times (30 + 5) = 480 + 80 = 560$  trees.
- Choice B is correct.** (4.3.2.1) The vertex is the point where the two rays of an angle meet.
- Choice D is correct.** (4.1.2.5) Apply “add 12” to input 8:  $8 + 12 = 20$ .
- Choice C is correct.** (4.1.2.5) Each bottle holds 750 mL. With 2 bottles, multiply:  $750 \times 2 = 1,500$  mL. There are **1,500** milliliters of water.
- Choice C is correct.** (4.1.2.6) A difference of 0 means the fractions are identical. A:  $\frac{4}{8} - \frac{3}{8} = \frac{1}{8}$  (not 0). B:  $\frac{6}{6} - \frac{4}{6} = \frac{2}{6}$  (not 0). C:  $\frac{3}{5} - \frac{3}{5} = 0$  ✓. D:  $\frac{5}{12} - \frac{7}{12} =$  negative (not 0).
- Choice B is correct.** (4.1.2.6) The paper strip is divided into 3 equal parts, and all 3 are colored. So the whole strip is colored:  $\frac{3}{3}$ . As unit fractions:  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$ .
- Choice D is correct.** (4.1.1.6) Divide:  $83 \div 8 = 10$  r3, bring down the 2 to get  $32 \div 8 = 4$ . Each of Sam’s albums holds **104** trading cards.



Scan me!  
For more practice  
& answers

Cheer Squad Final Pep Talk

---

## Hi, Math Star!

◇ 8 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 8 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

# 8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

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

## PERFECT FOR:

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

★ CONFIDENCE IN MATH.  
SUCCESS FOR LIFE.

## 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.



### Academic Success

Strengthen skills needed for future learning.

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ Mathematical Reasoning
- ✓ And More!



Visit [testinar.com/math4](https://testinar.com/math4) for additional Grade 4 math resources and practice materials.

## MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.

A COMPLETE  
PRACTICE EXPERIENCE  
TO HELP STUDENTS THRIVE!



Builds Confidence Through Practice



Strengthens Critical Thinking & Problem Solving



Encourages Independent Learning



Prepares Students for Future Success