

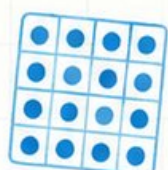
$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$

10

$$7 \times 8 = 56$$



$$\frac{3}{4}$$



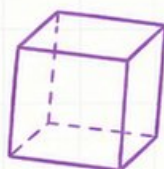
Minnesota



MCA III



GRADE 4



MATH

PRACTICE TESTS

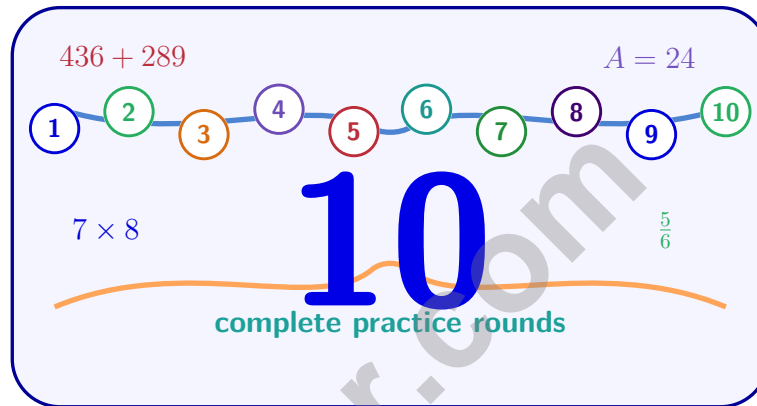


Standards-Aligned Review
with Mixed Practice
and **Answer Key**



10 Minnesota MCA-III Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten 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

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!

Ten steady rounds on the North Star math route

This book gives you ten 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?

Ten tests, 300 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 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Minnesota book.
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	_____	26
★ Practice Test 3	_____	36
★ Practice Test 4	_____	47
★ Practice Test 5	_____	59
★ Practice Test 6	_____	70
★ Practice Test 7	_____	82
★ Practice Test 8	_____	94
★ Practice Test 9	_____	105
★ Practice Test 10	_____	116
Practice Test Answer Keys	_____	127
Practice Test Answers and Explanations	_____	133

1) Which number completes the equation? $__ \times \frac{1}{5} = \frac{3}{5}$

A. 1

C. 3

B. 2

D. 5

2) What number is equal to $30,000 + 6,000 + 500 + 20 + 8$?

A. 36,285

C. 36,258

B. 36,582

D. 36,528

3) A child spins a bottle. It rotates $\frac{1}{9}$ of a full turn. How many degrees is this?

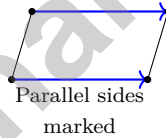
A. 30°

C. 40°

B. 35°

D. 45°

4) Which figure has at least one pair of parallel sides?



A. Trapezoid

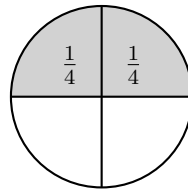
C. Pentagon

B. Triangle

D. Hexagon

5) How many degrees larger is a straight angle than a right angle?





$\frac{1}{2}$ painted

6)

A circular garden section is $\frac{1}{2}$ painted yellow. How much of the garden is not painted?

- A. $\frac{1}{2}$
- B. $\frac{1}{4}$

- C. $\frac{3}{4}$
- D. $\frac{3}{8}$

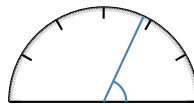
7) A number line shows hops of $\frac{1}{2}$. How many hops are needed to reach $\frac{3}{2}$?



- A. 1 hop
- B. 2 hops

- C. 3 hops
- D. 4 hops

8)



What is the best estimate of this angle?

- A. 60 degrees
- B. 70 degrees

- C. 75 degrees
- D. 65 degrees



Scan me!
For more practice
& answers

9) A fundraiser sold 1,512 raffle tickets. They want to split the money equally among 7 charities. If each ticket costs \$1, how much money does each charity receive?

A. \$206

C. \$226

B. \$236

D. \$216



5 bars, each $\frac{1}{3}$ yard

10)

Each bar above is $\frac{1}{3}$ yard. What is the total length of all 5 bars?

A. $\frac{5}{3}$ yards (or $1\frac{2}{3}$ yards)

C. $\frac{1}{3}$ yard

B. $\frac{5}{15}$ yard

D. 5 yards

11) Eli has $2\frac{4}{10}$ meters of fabric. He buys $3\frac{5}{10}$ more meters. How much fabric does he have now?

A. $5\frac{9}{10}$ meters

C. $5\frac{8}{10}$ meters

B. 6 meters

D. $6\frac{1}{10}$ meters

12) Grace drives 12 kilometers from home to school. Then she drives from school to the library, a distance that is 8 kilometers farther than the home-to-school trip. How many kilometers does she drive in total?

A. 4 km

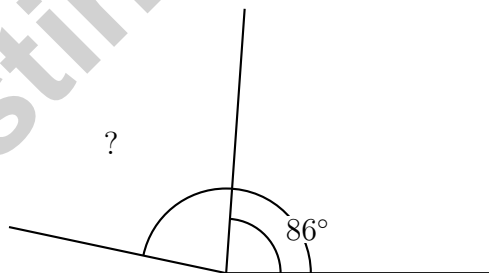
C. 32 km

B. 20 km

D. 12 km



- 1) A school starts the day at 9:00 a.m. Morning lessons last 2 hours 15 minutes. What time do morning lessons end?
- A. 10:15 a.m. C. 11:45 a.m.
 B. 11:15 a.m. D. 12:15 p.m.
- 2) In the number 5,003, what is the value of the digit in the hundreds place?
- A. 3 C. 3 hundred
 B. 50 D. 0
- 3) Which does NOT correctly decompose $\frac{8}{10}$?
- A. $\frac{4}{10} + \frac{4}{10}$ C. $\frac{2}{10} + \frac{5}{10}$
 B. $\frac{3}{10} + \frac{5}{10}$ D. $\frac{1}{10} + \frac{7}{10}$
- 4) A surveyor measures a land angle of 168° . A tree is planted such that it divides the angle into 86° and another part. What is the measure of the other part?



- A. 82° C. 254°
 B. 86° D. 90°



Scan me!
For more practice
& answers

5) What is $4\frac{1}{6} + 1\frac{4}{6}$?

A. $5\frac{1}{6}$

B. $5\frac{4}{6}$

C. $5\frac{5}{6}$

D. $6\frac{1}{6}$

6) Which description names a figure that would be symmetric about the described line?

 A. A right triangle with the line parallel to the hypotenuse B. An isosceles triangle with the line through the vertex angle C. A scalene triangle with the line through the center D. A right triangle with legs of different lengths

7) Diego needs to divide 1,625 into 5 equal groups. What is the result?

A. 315

B. 305

C. 335

D. 325



8)

A farmer wants to put a fence around this rectangular field. How many feet of fencing does he need?

A. 32 ft

B. 12 ft

C. 48 ft

D. 24 ft



1) A library receives 5 boxes of books. Each box has 20 books. They also receive 15 loose books. Then they shelve 45 books. How many books are left to shelve?

A. 115

C. 45

B. 100

D. 70

2) Which fraction is greater than 1?

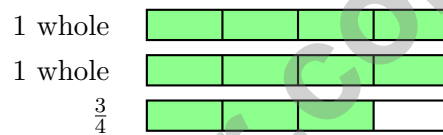
A. $\frac{3}{4}$

C. $\frac{5}{4}$

B. $\frac{5}{6}$

D. $\frac{7}{8}$

3) Two full fraction bars and part of a third show a mixed number:



This represents which mixed number?

A. $2\frac{1}{4}$

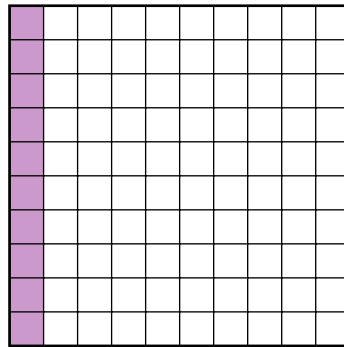
C. $2\frac{3}{4}$

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

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



- 4) Ming shaded $\frac{1}{10}$ of a rectangle. How many hundredths is this?



1 column shaded out of 10 columns

- A. 1 hundredth
- B. 10 hundredths
- C. 100 hundredths
- D. 11 hundredths
- 5) What is the value of the digit 8 in the number 1,289?
- A. 8
- B. 8,000
- C. 800
- D. 80
- 6) A full turn around a circle measures how many degrees?
- A. 90°
- B. 180°
- C. 270°
- D. 360°
- 7) A school library has 12 books about animals. It has 4 times as many books about sports. How many sports books does the library have?
- A. 16
- B. 32
- C. 42
- D. 48



Scan me!
For more practice
& answers

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



Scan me!
For more practice
& answers

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (4.1.1.2) To find the missing number, think: How many copies of $\frac{1}{5}$ do we need to make $\frac{3}{5}$? We need 3 copies. So the equation is $3 \times \frac{1}{5} = \frac{3}{5}$.
- 2) **Choice D is correct.** (4.1.1.4) Step 1: $30,000 + 6,000 = 36,000$. Step 2: $36,000 + 500 + 20 + 8 = 36,528$ ✓
- 3) **Choice C is correct.** (4.3.2.1) $\frac{1}{9} \times 360^\circ = 40^\circ$.
- 4) **Choice A is correct.** (4.3.1.1) The arrows clearly mark exactly one pair of parallel sides, which is the defining characteristic of a trapezoid. The other two sides are not parallel. The answer is **A**.
- 5) **The correct answer is 90.** (4.3.2.1) A straight angle is 180° and a right angle is 90° . Since $180 - 90 = 90$, the straight angle is 90° larger.
- 6) **Choice A is correct.** (4.1.2.6) The circular garden section is shown with yellow paint. Subtract the painted part from the whole: $1 - \frac{1}{2} = \frac{1}{2}$ unpainted.
- 7) **Choice C is correct.** (4.1.2.6) Each hop is $\frac{1}{2}$. To reach $\frac{3}{2}$, we need **3** hops: $\frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{3}{2}$.
- 8) **Choice D is correct.** (4.3.2.1) The ray falls between the 60° and 70° marks, right in the middle of that range. At 65° , this acute angle is a good estimate for the angle shown. The answer is **65** degrees.
- 9) **Choice D is correct.** (4.1.1.6) Divide: $15 \div 7 = 2$ r1, bring down the 1 to get $11 \div 7 = 1$ r4, bring down the 2 to get $42 \div 7 = 6$. Each charity receives **\$216**.
- 10) **Choice A is correct.** (4.1.1.2) All 5 bars, each $\frac{1}{3}$ yard long, have a total length of $5 \times \frac{1}{3} = \frac{5}{3}$ yards.
- 11) **Choice A is correct.** (4.1.2.6) Add the wholes: $2 + 3 = 5$. Add the fractions: $\frac{4}{10} + \frac{5}{10} = \frac{9}{10}$. The total is **$5\frac{9}{10}$** meters.
- 12) **Choice C is correct.** (4.1.2.5) Step 1: The second trip is 8 km farther than 12 km, so $12 + 8 = 20$ km. Step 2: Total distance is $12 + 20 = 32$ km. Grace drives **32** kilometers.
- 13) **Choice A is correct.** (4.3.2.1) To find the missing part, subtract what you know from the whole: $112^\circ - 63^\circ = 49^\circ$.
- 14) **Choice B is correct.** (4.1.2.5) Each array shows a factor pair multiplied. Check the products: $4 \times 6 = 24$ ✓; $5 \times 5 = 25$ (not 24!); $3 \times 8 = 24$ ✓; $2 \times 12 = 24$ ✓. So choice B is the array that does *not* match a factor pair of 24.
- 15) **The correct answer is A, C.** (4.1.1.4) Two steps lead to two true statements! Step 1: $240 \div 5 = 48$ pencils per grade—that matches choice A. Step 2: $48 - 15 = 33$ left after practice—that matches choice C. Choice B (50) and D (35) come from wrong arithmetic, and E confuses “240 distributed” with “300 total.”
- 16) **The correct answer is $1\frac{1}{4}$.** (4.1.2.6) Add fourths: $3 + 2 = 5$ fourths. That’s $\frac{5}{4}$, which is more than one whole, so it equals $1\frac{1}{4}$.
- 17) **Choice D is correct.** (4.1.2.1) Check D: $\frac{2}{3}$ with denominator 12 would be $\frac{2 \times 4}{3 \times 4} = \frac{8}{12}$, not $\frac{7}{12}$. False! A, B, and C are all true equivalent fractions.
- 18) **Choice C is correct.** (4.1.1.4) To round to the nearest thousand, always look at the digit one place to the right—that’s the hundreds digit. The answer is C: “The hundreds place (3)” ✓
- 19) **Choice A is correct.** (4.1.2.6) Top bar is full (one whole). Bottom bar shows $\frac{3}{5}$ shaded. Together: $1 + \frac{3}{5} = 1\frac{3}{5}$ ✓.
- 20) **Choice C is correct.** (4.1.1.2) The multiples of $\frac{2}{3}$ are: $\frac{2}{3}, \frac{4}{3}, \frac{6}{3}, \dots$ Each one is obtained by multiplying $\frac{2}{3}$ by whole numbers. Since $\frac{4}{3} = 2 \times \frac{2}{3}$, the answer is $\frac{4}{3}$.
- 21) **Choice A is correct.** (4.1.2.3) First, convert $\frac{3}{10} = \frac{30}{100}$. Then: $\frac{30}{100} + \frac{?}{100} = \frac{50}{100}$ tells us the missing number is 20.
- 22) **Choice D is correct.** (4.2.2.1) The counter diagram shows 3 rows of 5 apples—that’s “3 times as many.” Multiply: $3 \times 5 = 15$ apples.
- 23) **Choice B is correct.** (4.1.2.3) Seven tenths of the track is completed. In decimal form, that’s $\frac{7}{10} = 0.7$.
- 24) **Choice D is correct.** (4.2.2.1) “3 times as many” is a multiplication signal. Jordan has 3 groups of Alex’s 7 pencils: $7 \times 3 = 21$ pencils.
- 25) **Choice C is correct.** (4.3.2.1) A full circle is a 360° angle—it turns through **360** one-degree angles.
- 26) **Choice A is correct.** (4.3.2.2) This angle opens up a small amount, much less than a right angle. Since it’s less than 90° , it’s an acute angle.



Scan me!
For more practice
& answers

Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 10 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, boost confidence, and succeed in the classroom and beyond. With 10 full-length practice tests that reflect real test formats, students get the targeted practice they need to master key concepts, improve problem-solving abilities, and achieve their goals.

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Test Preparation

★ **CONFIDENCE IN MATH.
SUCCESS FOR LIFE.**

WHAT STUDENTS WILL GAIN:



Stronger Concepts

Reinforce key Grade 4 math skills and build a solid foundation.



Better Problem Solving

Develop critical thinking and solve problems with confidence.



Test Confidence

Familiarize with test formats and reduce exam stress.



Track Progress

Measure improvement and focus on areas that matter.



Achieve Success

Build the skills and confidence to reach higher goals.

TOPICS COVERED:

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



Visit testinar.com/math4 for more Grade 4 math resources and practice materials!

MORE PRACTICE. GREATER RESULTS.

Give your child the tools they need to succeed in math and beyond!



**A COMPLETE PRACTICE
EXPERIENCE TO HELP
STUDENTS THRIVE!**



Builds Confidence
Through Practice



Strengthens Critical Thinking
& Problem-Solving



Prepares for Tests
& Future Success