

# 3

# Minnesota

# MCA III

## GRADE 4

# MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**5 FULL-LENGTH**  
PRACTICE TESTS



**STANDARDS-ALIGNED**  
REVIEW



**MIXED PRACTICE**  
QUESTIONS



**ANSWER KEY**  
INCLUDED

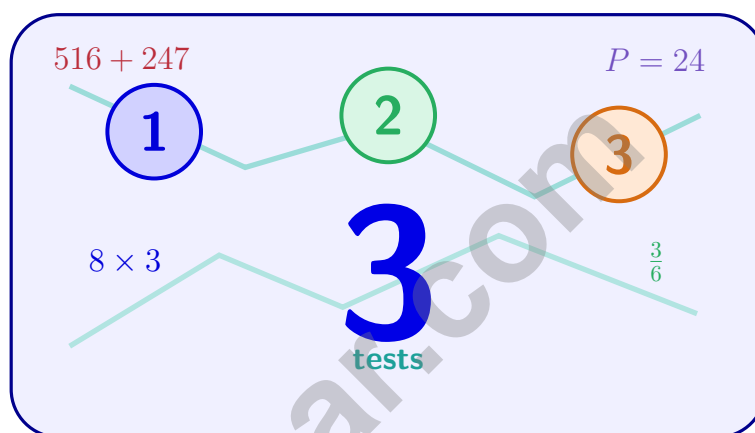
$$a^2 + b^2 = c^2$$

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



# 3 Minnesota MCA-III Grade 4 Math Practice Tests

*Standards-Aligned Practice for Stronger Math Skills and Test Readiness*



Three 30-question trail tests packed with Grade 4 review, Minnesota MCA-III strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

**Jay Daie and Reza Nazari**



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# Welcome, Minnesota Math Explorer!

Three steady rounds on the North Star math route

This book gives you three full Grade 3 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?

Three tests, 90 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 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	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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& answers

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1) Which ordering is correct?

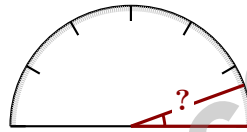
A.  $\frac{4}{5} > \frac{4}{6} > \frac{4}{8}$

B.  $\frac{4}{8} > \frac{4}{6} > \frac{4}{5}$

C.  $\frac{4}{5} = \frac{4}{6} = \frac{4}{8}$

D.  $\frac{4}{6} > \frac{4}{5} > \frac{4}{8}$

2) Two parallel lines are best described as:

 A. Lines that meet at a right angle C. Lines that meet at any angle B. Lines that never meet and are always the same distance apart D. Lines that share a common endpoint

3)

What is the measure of the angle shown?

 A. 30 degrees C. 45 degrees B. 20 degrees D. 60 degrees

4) What is  $4\frac{1}{4} + 1\frac{2}{4}$ ?

A.  $5\frac{1}{4}$

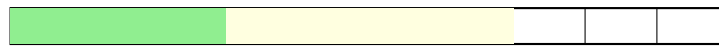
C.  $5\frac{3}{4}$

B.  $5\frac{2}{4}$

D.  $6\frac{1}{4}$



remaining



$$\frac{3}{10}$$

$$\frac{4}{10}$$

5)

A garden bed uses  $\frac{3}{10}$  for vegetables and  $\frac{4}{10}$  for flowers. The rest will be herbs. What fraction is for herbs?

A.  $\frac{3}{10}$

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

B.  $\frac{7}{10}$

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

6) Which pair of decompositions both equal  $\frac{8}{10}$ ?

A.  $\frac{2}{10} + \frac{6}{10}$  and  $\frac{4}{10} + \frac{4}{10}$

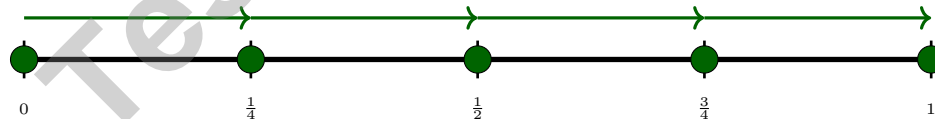
C.  $\frac{2}{10} + \frac{5}{10}$  and  $\frac{4}{10} + \frac{3}{10}$

B.  $\frac{1}{10} + \frac{6}{10}$  and  $\frac{3}{10} + \frac{5}{10}$

D.  $\frac{5}{10} + \frac{2}{10}$  and  $\frac{6}{10} + \frac{1}{10}$

7) A farm sells 2,160 eggs in cartons of 6 eggs each. How many cartons can they fill?

8)



The number line shows 4 equal jumps of  $\frac{1}{4}$ . What multiplication is shown?

A.  $4 \times \frac{1}{4} = 1$

C.  $4 \times 1 = 4$

B.  $4 \times \frac{1}{4} = \frac{1}{4}$

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



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- 1) A rectangular classroom is 12 meters long and 8 meters wide. How much distance would you walk if you walked around the entire edge of the room once?
- A. 20 m                                       C. 96 m  
 B. 40 m                                       D. 48 m
- 2) Ivy has  $4\frac{4}{5}$  meters of string. After using some, she has  $1\frac{2}{5}$  meters left. How much string did she use?
- A.  $2\frac{2}{5}$  meters                                       C.  $3\frac{3}{5}$  meters  
 B.  $3\frac{2}{5}$  meters                                       D.  $3\frac{4}{5}$  meters
- 3)  $\frac{5}{4}$  is the same as  $1\frac{1}{4}$ . Which shows this decomposition?
- A.  $\frac{4}{4} + \frac{1}{4}$                                        C.  $\frac{3}{4} + \frac{1}{4}$   
 B.  $\frac{2}{4} + \frac{2}{4}$                                        D.  $\frac{4}{4} + \frac{2}{4}$
- 4) A garden has 20 tomato plants and 15 pepper plants. Then 5 plants die. The remaining plants are each expected to grow 12 fruits. How many total fruits are expected?
- A. 300     C. 480  
 B. 420     D. 360
- 5) What is 2,735 rounded to the nearest ten?
- A. 2,730     C. 2,700  
 B. 2,800     D. 2,740



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- 6) Write  $\frac{9}{10}$  as a fraction with denominator 100. Explain how you know your answer is correct.

- 7) Which fraction equals thirty-five hundredths?

- A.  $\frac{35}{10}$                        C.  $\frac{35}{100}$   
 B.  $\frac{3}{5}$                          D.  $\frac{53}{100}$

- 8) Two rays form an angle with a measure of  $80^\circ$ . If one part of the angle is  $32^\circ$ , what is the measure of the other part?

- A.  $48^\circ$                        C.  $112^\circ$   
 B.  $50^\circ$                        D.  $35^\circ$

- 9) Leo reads 2 books. His sister reads 5 times as many books as Leo. How many books does his sister read?

- A. 3                               C. 5  
 B. 7                               D. 10

- 10) Which inequality is correct?

- A.  $\frac{6}{12} < \frac{9}{12}$                        C.  $\frac{6}{12} = \frac{9}{12}$   
 B.  $\frac{6}{12} > \frac{9}{12}$                        D.  $\frac{9}{12} < \frac{6}{12}$





5) Which subtraction is correct?

A.  $7,123 - 2,456 = 4,667$

C.  $7,123 - 2,456 = 5,567$

B.  $7,123 - 2,456 = 5,667$

D.  $7,123 - 2,456 = 5,777$

6) A child ate  $1\frac{3}{4}$  cookies and his sister ate  $\frac{2}{4}$  cookies. How many cookies did they eat together?

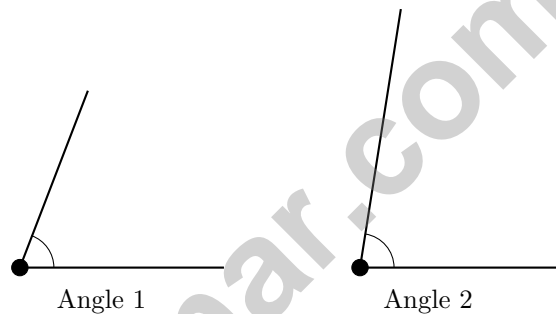
A.  $2\frac{1}{4}$

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

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

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

7) Two angles are shown below:



Which angle is wider?

 A. Angle 1 C. They are equal B. Angle 2 D. Cannot tell

8) Ava had  $\frac{7}{8}$  of a chocolate bar. She gave  $\frac{2}{8}$  to her friend. How much does she have left?

A.  $\frac{5}{8}$

C.  $\frac{5}{16}$

B.  $\frac{9}{8}$

D.  $\frac{1}{8}$



## 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

- Choice A is correct.** (4.1.2.1) All have numerator 4. Larger denominators give smaller pieces: fifths > sixths > eighths. So  $\frac{4}{5} > \frac{4}{6} > \frac{4}{8}$ .
- Choice B is correct.** (4.3.2.2) Picture two railroad tracks stretching into the distance — they never touch and stay the same distance apart the whole way. That's what parallel lines do.
- Choice B is correct.** (4.3.2.1) The baseline sits at  $0^\circ$ , and the second ray points to the  $20^\circ$  mark. Since  $20^\circ < 90^\circ$ , this is an acute angle—and a small one at that. The answer is **20** degrees.
- Choice C is correct.** (4.1.2.6) Add the wholes:  $4 + 1 = 5$ . Add the fractions:  $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$ . The sum is  **$5\frac{3}{4}$** .
- Choice A is correct.** (4.1.2.6) The garden bed is divided into sections shown in the picture. Step 1: Add the vegetables and flowers:  $\frac{3}{10} + \frac{4}{10} = \frac{7}{10}$ . Step 2: The rest is herbs:  $\frac{10}{10} - \frac{7}{10} = \frac{3}{10}$ .
- Choice A is correct.** (4.1.2.6) Option A shows two decompositions:  $\frac{2}{10} + \frac{6}{10}$  and  $\frac{4}{10} + \frac{4}{10}$ . Check:  $2 + 6 = 8$  and  $4 + 4 = 8$ . Both equal  $\frac{8}{10} \checkmark$ .
- The correct answer is 360.** (4.1.1.6) Divide:  $21 \div 6 = 3$  r3, bring down the 6 to get  $36 \div 6 = 6$ , bring down the 0 to get  $0 \div 6 = 0$ . The farm fills **360** cartons of eggs.
- Choice A is correct.** (4.1.1.2) The number line shows 4 equal jumps of  $\frac{1}{4}$  each, landing at 1. This shows the multiplication  $4 \times \frac{1}{4} = 1$ .
- The correct answer is  $\frac{1}{3}$ .** (4.1.2.6) The baker needs  $\frac{7}{12}$  cup and has  $\frac{3}{12}$ . What's needed:  $7 - 3 = 4$  twelfths more, or  $\frac{4}{12}$  (which simplifies to  $\frac{1}{3}$ ).
- Choice C is correct.** (4.3.3.4) A regular hexagon (6 equal sides) is perfectly balanced in six ways. Lines can pass through opposite corners, or through the middle of opposite sides—each creates matching halves. The answer is **6** lines of symmetry.
- Choice B is correct.** (4.1.1.2) Each bottle holds  $\frac{3}{8}$  liter, and there are 4 bottles. Multiply:  $4 \times \frac{3}{8} = \frac{4 \times 3}{8} = \frac{12}{8} = 1\frac{1}{2}$  liters. The answer is  **$1\frac{1}{2}$**  liters.
- Choice C is correct.** (4.1.2.6) Check the others:  $\frac{1}{4} + \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$  (same as  $\frac{2}{4}$ ), and  $\frac{2}{8} + \frac{2}{8} = \frac{4}{8} = \frac{1}{2}$  (also the same). But  $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ , which is NOT equal to  $\frac{2}{4}$ . So  $\frac{1}{3} + \frac{1}{3}$  is the answer.
- Choice D is correct.** (4.1.1.4) Two steps! Step 1: total flowers after planting more:  $200 + 40 = 240$ . Step 2: divide equally into 8 sections:  $240 \div 8 = 30$  flowers per section.
- Choice B is correct.** (4.1.2.3) Add the two decimals:  $0.3 + 0.5 = 0.8$  kilometers.
- The correct answer is A, E.** (4.1.1.2) A:  $3 \times \frac{1}{4} = \frac{3}{4} \checkmark$ . B:  $4 \times \frac{1}{3}$  should give  $\frac{4}{3}$ , not  $\frac{4}{12}$ . C:  $5 \times \frac{1}{5}$  equals 1, not  $\frac{5}{10}$ . D:  $2 \times \frac{1}{10}$  gives  $\frac{2}{10}$ , not  $\frac{2}{20}$ . E:  $7 \times \frac{1}{9} = \frac{7}{9} \checkmark$ .
- Choice B is correct.** (4.3.2.1) From 12 to 6 on a clock is a half turn (straight across), which is  **$180^\circ$** .
- Choice B is correct.** (4.3.2.1) Desks and books have rectangular corners, which are right angles.
- Choice C is correct.** (4.1.1.2) Four tiles, each  $\frac{1}{6}$ , combine to make  $4 \times \frac{1}{6} = \frac{4}{6}$ .
- Choice C is correct.** (4.1.2.3) The dot is at the third mark out of 10 equal marks, so it shows  $\frac{3}{10}$ .
- Choice D is correct.** (4.1.2.5) Look for any factor besides 1 and itself.  $25 = 5 \times 5$ , so 5 is a factor too. That gives factors 1, 5, 25—more than two—so 25 is **composite**.
- Choice D is correct.** (4.1.2.3) The lowest value on the line plot is 0 inch and the highest is 1 inch. The range is  $1 - 0 = 1$  inch.
- Choice A is correct.** (4.1.2.5) Step 1: Find total spent:  $12 + 28 = 40$  dollars. Step 2: Subtract from \$50:  $50 - 40 = 10$  dollars. Leo has **\$10** left.
- Choice A is correct.** (4.2.1.1) Since 1 pound = 16 ounces, divide:  $8 \div 16 = \frac{1}{2}$  pound. The answer is  $\frac{1}{2}$  pound.
- The correct answer is 4,655.** (4.1.1.3) Regroup carefully across the zeros:  $7,000 - 2,345 = 4,655$ .
- Choice D is correct.** (4.2.2.1) "4 times as many" tells us to multiply:  $4 \times 11 = 44$  colored pencils.



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A Note From Your Math Friend

## Hi, Math Star!

◇ Wow! You finished 3 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 3 tests, you learned that trying is the most important thing. ★

### Look What You Did!

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

**Big tip for test day:** take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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 Friend

# PRACTICE TODAY. SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills 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 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.



### 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 & Decimals
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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