

4

Minnesota



MCA III

GRADE 4

MATH

PRACTICE TESTS



5 FULL-LENGTH
PRACTICE TESTS



Standards-Aligned Review with
Mixed Practice and Answer Key



STANDARDS-ALIGNED
REVIEW



MIXED PRACTICE
QUESTIONS



ANSWER KEY
INCLUDED



$$4 \times 7 = 28$$

$$36 \div 9 = 4$$



4 Minnesota MCA-III Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Welcome, Minnesota Math Explorer!

Four steady rounds on the North Star math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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.

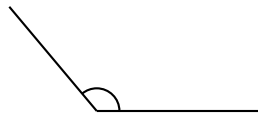


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For more practice
& answers

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- 1) A chocolate bar is divided into 5 equal pieces. Ming eats 4 pieces. What fraction of the bar did Ming eat?
- A. $\frac{4}{5}$ C. $\frac{5}{4}$
 B. $\frac{1}{4}$ D. $\frac{1}{5}$
- 2) Which shows the correct comparison?
- A. $0.8 > 0.81$ C. $0.81 < 0.8$
 B. $0.8 < 0.81$ D. $0.81 = 0.8$
- 3) A rectangle with unequal adjacent sides has how many lines of symmetry?
- A. 1 C. 3
 B. 2 D. 4
- 4) Which figure is NOT a quadrilateral?
- A. Square C. Rectangle
 B. Triangle D. Trapezoid
- 5) Use a protractor to measure the angle below. Write the degree measure.



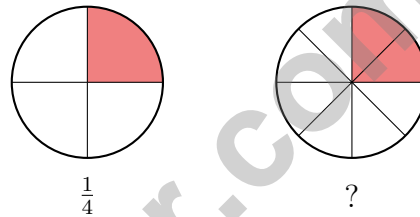
6) Sam read 234 pages of a book on Monday. On Tuesday, he read 189 more pages. How many pages did he read in total?

- A. 423 pages C. 424 pages
 B. 413 pages D. 333 pages

7) Which comparison is correct?

- A. $456,200 > 456,300$ C. $189,450 = 189,451$
 B. $345,678 < 345,667$ D. $234,567 < 234,576$

8) Look at the two circle models. They are the same size.



Which fraction should replace the question mark?

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

9) A toy store has 100 action figures. A craft store has 2 times as many action figures. How many action figures does the craft store have?

- A. 102 C. 300
 B. 150 D. 200

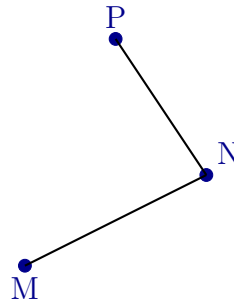


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- 1) A factory packs 144 toys into crates. Each crate holds 12 toys. How many crates are full? If workers find 9 more toys to pack, how many crates total are needed?
- A. 12 full crates, 12 total needed C. 11 full crates, 12 total needed
 B. 144 crates, 13 total D. 12 full crates, 13 total needed
- 2) What is $2,432 \div 8$?
- A. 304 C. 324
 B. 314 D. 334
- 3) In a four-digit number, the thousands digit is 3, the hundreds digit is 4, the tens digit is 2, and the ones digit is 6. What is the number?
- A. 4,236 C. 2,346
 B. 6,243 D. 3,246
- 4) A pattern of numbers follows the rule “add the previous two numbers.” Starting with 3 and 4, what is the 5th term?
- A. 12 C. 16
 B. 14 D. 18



5) Which points are the endpoints of segment MN in this diagram?



- A. M and N
- B. N and P
- C. M and P
- D. All three points
- 6) Express 0.23 as a fraction.
- A. $\frac{23}{10}$
- B. $\frac{23}{100}$
- C. $\frac{2}{3}$
- D. $\frac{23}{1000}$
- 7) Which is a correct way to decompose $\frac{10}{12}$?
- A. $\frac{5}{12} + \frac{4}{12}$
- B. $\frac{4}{12} + \frac{7}{12}$
- C. $\frac{3}{12} + \frac{3}{12} + \frac{3}{12}$
- D. $\frac{2}{12} + \frac{2}{12} + \frac{2}{12} + \frac{2}{12} + \frac{2}{12}$
- 8) Victor has 16 toy cars. His cousin has 2 times as many toy cars as Victor. How many toy cars does his cousin have?
- A. 18
- B. 28
- C. 40
- D. 32



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1) On a line plot with eighths: $\frac{1}{8}$ appears 2 times, $\frac{3}{8}$ appears 4 times, and $\frac{7}{8}$ appears 1 time. What is the sum total of all measurements?

- A. $\frac{19}{8}$
 C. $\frac{21}{8}$
 B. $\frac{20}{8}$
 D. $\frac{22}{8}$

2) How many lines of symmetry does a regular triangle have?

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

3) Diego drew hops on a number line from 0 to 1. Each hop is $\frac{1}{6}$. How many hops reach exactly 1?



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

4) In the number 1,111, which relationship is true?

Thousands	Hundreds	Tens	Ones
1	1	1	1

- A. The ones value is 10 times the tens value.
 C. The tens value is 100 times the ones value.
 B. The thousands value is 10 times the tens value.
 D. The hundreds value is 10 times the tens value.



5) Mia buys 4 ribbons, each one-sixth of a yard long. How long are all the ribbons together?

- A. $\frac{4}{6}$ yard
 B. 4 yards
 C. $\frac{1}{24}$ yard
 D. $\frac{6}{4}$ yard

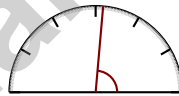
6) A recipe calls for $\frac{3}{5}$ cup of milk. If you double the recipe, how much milk do you need?

- A. $\frac{3}{10}$ cup
 B. $\frac{6}{5}$ cups (or $1\frac{1}{5}$ cups)
 C. $\frac{5}{6}$ cup
 D. $\frac{2}{5}$ cup

7) Ming has 50 cookies. She gives away 14 cookies. Then she puts the remaining cookies equally into 4 bags. How many cookies are in each bag?

- A. 12
 B. 11
 C. 9
 D. 8

8)



Ava measures an angle and gets a reading very close to 90 degrees. Is this angle acute, right, or obtuse?

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

9) Which pair are both factors of 36?

- A. 4 and 8
 B. 6 and 7
 C. 6 and 9
 D. 8 and 9



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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

- 1) **Choice A is correct.** (4.1.1.2) Since the bar is divided into 5 equal pieces, each piece is $\frac{1}{5}$. Ming ate 4 pieces, which equals $4 \times \frac{1}{5} = \frac{4}{5}$ of the bar.
- 2) **Choice B is correct.** (4.1.2.3) Rewrite 0.8 as 0.80 to see it clearly. Comparing: $80 < 81$ hundredths, so $0.8 < 0.81$.
- 3) **Choice B is correct.** (4.3.3.4) A non-square rectangle is longer in one direction. Two fold lines balance it—one vertical through the middle and one horizontal through the middle. The answer is **2** lines of symmetry.
- 4) **Choice B is correct.** (4.3.1.1) A triangle has three sides and three angles. By definition, a quadrilateral must have four sides and four angles. Since a triangle does not have four sides, it is not a quadrilateral. The answer is **B**.
- 5) **The correct answer is 130.** (4.3.2.1) Place the protractor's center point at the vertex where the rays meet. Align one ray with the baseline at 0° . Read where the second ray crosses the scale. This angle measures 130° , which is between 90° and 180° , so it's obtuse. The answer is **130** degrees.
- 6) **Choice A is correct.** (4.1.1.3) Sam read pages on Monday and more on Tuesday, so we add. $234 + 189 = 423$ pages total.
- 7) **Choice D is correct.** (4.1.1.4) Looking at B: thousands and hundreds match. Tens place: $6 < 7$, so $234,567 < 234,576$ is true. Others are false ✓
- 8) **Choice A is correct.** (4.1.2.1) The shaded wedges in both circles are the same size. The first circle is split into 4 pieces (1 shaded), the second into 8 pieces (2 shaded). They cover the same amount: $\frac{1}{4} = \frac{2}{8}$.
- 9) **Choice D is correct.** (4.2.2.1) "2 times as many" means multiply by 2: $2 \times 100 = 200$ action figures.
- 10) **Choice A is correct.** (4.3.2.1) An acute angle is smaller than a right angle. This angle opens less than a square corner, so it is acute.
- 11) **The correct answer is 2.** (4.1.1.2) Zoe drinks $\frac{2}{5}$ liter each day for 5 days. Multiply: $5 \times \frac{2}{5} = \frac{5 \times 2}{5} = \frac{10}{5} = 2$ liters. The answer is **2** liters.
- 12) **Choice C is correct.** (4.3.2.4) Area = length \times width = $10 \times 3 = 30$ sq in.
- 13) **Choice C is correct.** (4.1.2.5) Build a pyramid: Figure 1 = 1, Figure 2 = $1 + 2 = 3$, Figure 3 = $1 + 2 + 3 = 6$. Figure 5 = $1 + 2 + 3 + 4 + 5 = 15$ circles.
- 14) **Choice A is correct.** (4.1.1.6) Long division: $2 \div 2 = 1$, bring down the 1 to get $1 \div 2 = 0$ r1, bring down the 5 to get $15 \div 2 = 7$ r1, bring down the 6 to get $16 \div 2 = 8$. The quotient is **1,078**.
- 15) **The correct answer is A, C.** (4.1.2.6) Let's check each choice. Choice A: $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{4}{6}$ (correct!). Choice C: "Four unit fractions" also describes this sum (correct!). Choices B, D, E: Wrong denominators or wrong totals.
- 16) **Choice A is correct.** (4.1.2.6) The frog makes three equal-sized jumps to $\frac{9}{10}$. Each jump: $\frac{3}{10}$, because $3 + 3 + 3 = 9$ ✓.
- 17) **Choice D is correct.** (4.1.1.6) Split 16: $5 \times (10 + 6) = 50 + 30 = 80$ pages.
- 18) **Choice A is correct.** (4.1.2.3) The phrase "six tenths" appears in both the decimal form (0.6) and the fraction form ($\frac{6}{10}$).
- 19) **Choice A is correct.** (4.1.2.1) Same numerator (2): smaller denominator means bigger pieces. Since $3 < 5$, $\frac{2}{3} > \frac{2}{5}$. Rio's statement is correct!
- 20) **Choice D is correct.** (4.1.2.5) Test the small primes: 29 is odd (not $\div 2$); $2 + 9 = 11$ (not $\div 3$); doesn't end in 0 or 5 (not $\div 5$); $7 \times 4 = 28$, $7 \times 5 = 35$, no 7. So 29 has only factors 1 and 29—**prime**.
- 21) **Choice C is correct.** (4.1.2.3) On the line plot, count the X marks stacked above $\frac{2}{8}$ inch. There are **3** X marks.
- 22) **Choice D is correct.** (4.2.2.1) Compare the bars by dividing the longer by the shorter: $12 \div 3 = 4$. So Bar B is 4 times as long as Bar A.
- 23) **Choice D is correct.** (4.1.1.4) We're rounding to the nearest thousand. Look at the hundreds digit: 3. Since $3 < 5$, we round DOWN and keep the thousands digit as 2, giving us **12,000**. ✓
- 24) **The correct answer is 12.** (4.3.2.1) Divide the full circle by 30 degrees: $360^\circ \div 30^\circ = 12$ angles needed.
- 25) **Choice B is correct.** (4.3.2.1) An angle of 130° is composed of **130** one-degree angles.
- 26) **Choice D is correct.** (4.1.1.4) Three steps! Step 1: total items: $35 + 28 = 63$. Step 2: subtract the lost items: $63 - 6 = 57$. Step 3: share among 3 shelters: $57 \div 3 = 19$ items each.



Captain's Log

Ahoy, Math Sailor!

◇ You sailed through 4 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

Captain's tip: on test day, sail steady. Trust the map you built through 4 practice tests. You will reach safe harbor!

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

Jay Daie

Your Math Captain

PRACTICE TODAY, SUCCEED TOMORROW!

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

With 4 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.



Track Progress

Measure growth across multiple practice tests.



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
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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