

6 Minnesota MCA III

GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



MASTER KEY MATH CONCEPTS
BUILD CONFIDENCE FOR TEST DAY

INCLUDES COMPREHENSIVE ANSWER KEY
ALIGNED STATE STANDARDS

6 Minnesota MCA-III Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six 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!

Six steady rounds on the North Star math route

This book gives you six 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?

Six tests, 180 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 4–6	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.

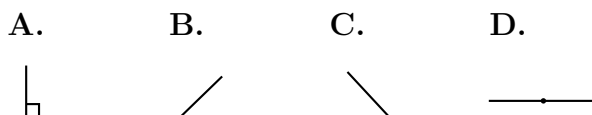


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1) Which diagram shows a right angle?



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

2) Ming collected rock weights in fourths of an ounce: $\frac{1}{4}$, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{1}{4}$, $\frac{3}{4}$. If plotted, which weight would have the tallest stack of X marks?

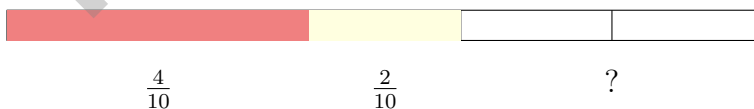
- A. $\frac{1}{4}$ oz
- B. $\frac{2}{4}$ oz
- C. $\frac{3}{4}$ oz
- D. $\frac{4}{4}$ oz

3) What is $9,000 - 4,256$?

- A. 4,744
- B. 5,244
- C. 4,244
- D. 5,744

4) How many square tiles fit in a grid that is 26 units long and 12 units wide?

- A. 200
- B. 352
- C. 262
- D. 312

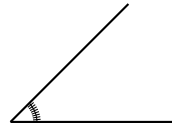


5)

A number line from 0 to 1 shows $\frac{4}{10}$ in red and $\frac{2}{10}$ in yellow. What fraction is unmarked?

- A. $\frac{4}{10}$
- B. $\frac{2}{10}$
- C. $\frac{6}{10}$
- D. $\frac{8}{10}$

6)



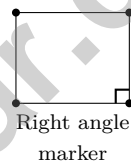
This angle shows tick marks from 0 to 45. What is the measure?

- A. 44° C. 46°
 B. 45° D. 90°

7) A school has 48 third-graders. This is 4 times as many as the number of second-graders. How many second-graders are there?

- A. 192 C. 44
 B. 52 D. 12

8) Which shape has perpendicular sides?

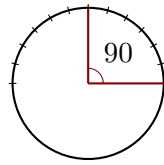


- A. Obtuse triangle C. Acute triangle
 B. Rectangle D. Trapezoid

9) A letter has exactly one line of symmetry. How many lines of symmetry does it have?



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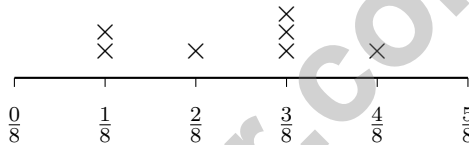


1)

The angle shown is a right angle with degree tick marks. How many one-degree angles form a right angle?

- A. 45 one-degree angles C. 180 one-degree angles
 B. 90 one-degree angles D. 360 one-degree angles

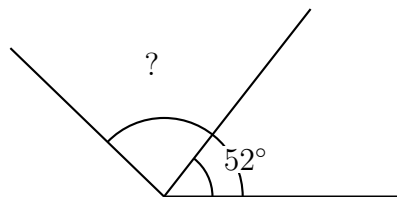
2) Here is a line plot showing sticker lengths (in inches):



What is the difference in inches between the longest and shortest stickers?

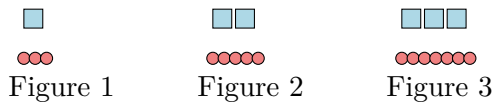
- A. $\frac{1}{8}$ inch C. $\frac{3}{8}$ inch
 B. $\frac{2}{8}$ inch D. $\frac{4}{8}$ inch

3) A ray divides a 136° angle into two parts. The smaller part measures 52° . What is the measure of the larger part?



- A. 84° C. 188°
 B. 52° D. 68°

4) A shape pattern uses squares and circles. The pattern is:



How many circles are in Figure 4?

- A. 7
 C. 9
 B. 8
 D. 10

5) Which shows the first four consecutive multiples of $\frac{1}{3}$ in order?

- A. $\frac{1}{3}, \frac{2}{3}, \frac{4}{3}, \frac{5}{3}$
 C. $\frac{1}{3}, \frac{1}{6}, \frac{1}{9}, \frac{1}{12}$
 B. $\frac{1}{3}, \frac{2}{3}, \frac{3}{3}, \frac{4}{3}$
 D. $\frac{1}{3}, \frac{2}{3}, \frac{3}{9}, \frac{4}{9}$

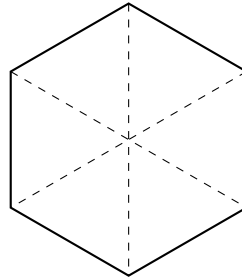
6) Triple $\frac{3}{4}$.

7) Add: $6,234 + 3,456 = ?$



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1) How many lines of symmetry does this regular hexagon have?

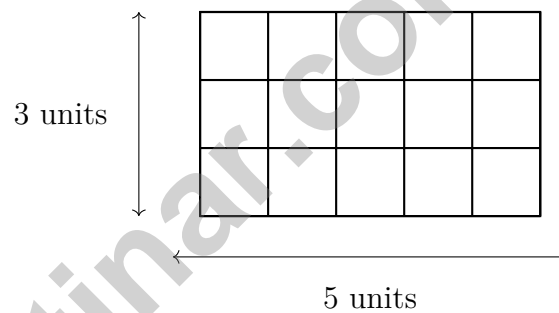


A. 3

B. 4

C. 5

D. 6



2)

What is the perimeter of the rectangle shown?

A. 16 units

B. 15 units

C. 8 units

D. 30 units

3) What is $4,205 \div 5$?

A. 841

B. 831

C. 821

D. 851



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- 4) A restaurant uses 9 tablespoons of salt in each pot of soup. If they make 8 pots of soup and then use an additional 12 tablespoons for seasoning, how many tablespoons of salt do they use in total?

- 5) Which statement shows the four partial products for 17×19 ?

- A. $10 \times 10 = 100$, $10 \times 9 = 90$, $7 \times 19 = 133$
- B. $19 \times 10 = 190$, $19 \times 7 = 133$
- C. $17 \times 10 = 170$, $17 \times 8 = 136$
- D. $10 \times 10 = 100$, $10 \times 9 = 90$, $7 \times 10 = 70$, $7 \times 9 = 63$

- 6) In the number 8,888, the digit in the thousands place is how many times the value of the digit in the ones place?

- 7) What is the next number in the pattern? 1, 1, 2, 3, 5, 8, 13, __

- A. 18
- B. 20
- C. 21
- D. 22

- 8) A carton of juice contains 3 liters. How much juice is in 9 cartons?

- A. 12 L
- B. 18 L
- C. 27 L
- D. 30 L



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.** (4.3.2.2) Look for the small square symbol in the corner — that’s geometry’s way of saying “this is a right angle!” Only Diagram A has that special marker.
- Choice A is correct.** (4.1.2.3) Count the occurrences: $\frac{1}{4}$ oz appears 3 times (the most!), $\frac{2}{4}$ oz once, and $\frac{3}{4}$ oz once. So $\frac{1}{4}$ oz has the tallest stack.
- Choice A is correct.** (4.1.1.3) Since we’re subtracting from 9,000, we must regroup across the zeros to subtract in each place. The answer is **4,744**.
- Choice D is correct.** (4.1.1.6) Distribute and add: $26 \times (10 + 2) = 260 + 52 = \mathbf{312}$ tiles.
- Choice A is correct.** (4.1.2.6) The number line shows marked and unmarked sections. Step 1: Add the marked fractions: $\frac{4}{10} + \frac{2}{10} = \frac{6}{10}$. Step 2: Subtract from the whole: $\frac{10}{10} - \frac{6}{10} = \frac{4}{10}$ is unmarked.
- Choice B is correct.** (4.3.2.1) The angle turns through 45 one-degree angles, measuring 45° .
- Choice D is correct.** (4.2.2.1) We know the bigger group (48) and the comparison (4 times). To find the smaller group, divide: $48 \div 4 = 12$ second-graders.
- Choice B is correct.** (4.3.1.1) Perpendicular sides meet at 90-degree angles, as indicated by the right angle marker shown in the figure. A rectangle has all adjacent sides perpendicular to each other. The answer is **B**.
- The correct answer is 1.** (4.3.3.4) The question tells us the letter has exactly one line of symmetry, so the answer is **1**.
- Choice D is correct.** (4.1.1.4) A digit in the thousands place is worth digit $\times 1,000$; in the hundreds place, it’s worth digit $\times 100$. The ratio is $1,000 \div 100 = \mathbf{10}$. ✓
- Choice B is correct.** (4.1.2.6) Six unit fractions of $\frac{1}{6}$ make $\frac{6}{6}$, which is one whole. Count: 6 ones make 6 in the numerator.
- Choice C is correct.** (4.1.1.4) We’re rounding to the nearest thousand. Look at the hundreds digit: 9. Since $9 \geq 5$, we round UP! The thousands digit changes from 4 to 5, so the answer is **65,000**. ✓
- Choice B is correct.** (4.1.1.2) On the number line, we make 6 jumps of $\frac{1}{4}$ each, landing at $\frac{6}{4} = 1\frac{1}{2}$. So $6 \times \frac{1}{4} = 1\frac{1}{2}$. The answer is $1\frac{1}{2}$.
- Choice B is correct.** (4.3.2.1) The diagram shows two right angles: angle a is 90° (right to up), and angle b is 90° (up to left). Together: $90^\circ + 90^\circ = \mathbf{180^\circ}$.
- The correct answer is A, D.** (4.1.2.5) Test each by trying small prime divisors (2, 3, 5, 7). 31: passes all—**prime** ✓. $33 = 3 \times 11$ (composite). $35 = 5 \times 7$ (composite). 37: passes all—**prime** ✓. $39 = 3 \times 13$ (composite). So choices A and D are the prime numbers.
- Choice B is correct.** (4.1.1.2) Marcus reads $\frac{3}{12}$ of the book each day for 4 days. We multiply: $4 \times \frac{3}{12} = \frac{12}{12} = 1$ whole book.
- Choice C is correct.** (4.3.2.1) At 55° , the first angle is less than 90° , so it’s acute. At 165° , the second angle is between 90° and 180° , so it’s obtuse. We have one of each type. The answer is one acute and one obtuse.
- Choice B is correct.** (4.3.2.1) The sides of an angle are rays that start at the vertex and extend outward.
- The correct answer is 48.** (4.1.2.5) The n th multiple of 4 is just $4 \times n$. So the 12th term is $4 \times 12 = \mathbf{48}$. *Quick check by skip-counting:* 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48—the 12th number is indeed 48. ✓
- Choice B is correct.** (4.1.1.2) The fraction $\frac{4}{10}$ is the same as 4 copies of $\frac{1}{10}$. We write this multiplication as $4 \times \frac{1}{10}$.
- Choice B is correct.** (4.3.2.1) The two folds meet at a point. Combine their angles: $70^\circ + 20^\circ = \mathbf{90^\circ}$.
- Choice B is correct.** (4.1.1.2) Two groups of $\frac{2}{5}$ each: $2 \times \frac{2}{5} = \frac{2 \times 2}{5} = \frac{4}{5}$.
- The correct answer is 45.** (4.1.1.4) The number 45,328 breaks into 45 thousands and 328 ones, so there are 45 thousands ✓
- Choice C is correct.** (4.3.2.4) Use $P = 2\ell + 2w = 28$ with $w = 4$: $2\ell + 2(4) = 28$. Solve: $2\ell + 8 = 28$, so $2\ell = 20$, thus $\ell = 10$ in.
- Choice C is correct.** (4.1.2.3) A trailing zero in a decimal doesn’t change the value: $0.7 = 0.70$. Both equal seven tenths.
- Choice C is correct.** (4.1.2.3) A trailing zero doesn’t change the value. Both 0.4 and 0.40 represent the same amount: 4 tenths, or 40 hundredths.



Author's Note

From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 6 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

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

Jay Daie

Your Math Friend

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

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