

7

Minnesota

MCA III

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 8 \times 7 \\ = \\ 56 \end{array}$$



7 Full-Length
Practice Tests



Standards-
Aligned



Build Confidence
and Skills



Mixed Question
Types

**ANSWER
KEY**

INCLUDED

7 Minnesota MCA-III Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven 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!

Seven steady rounds on the North Star math route

This book gives you seven 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?

Seven tests, 210 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 5–7	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.

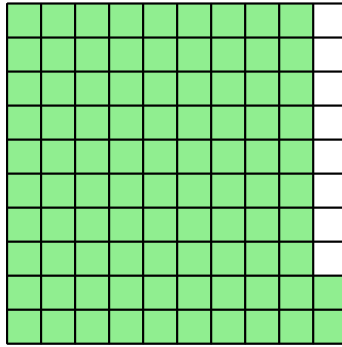


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For more practice
& answers

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1) How many hundredths are shaded in this grid?



- A. 8 hundredths or 0.08 C. 92 hundredths or 0.92
 B. 80 hundredths or 0.80 D. 20 hundredths or 0.20
- 2) A straight angle measures 180° . If it is split into two angles, and one angle is 125° , what is the measure of the other angle?
- A. 55° C. 305°
 B. 65° D. 180°
- 3) Diego used $\frac{9}{10}$ of his water supply. He used $\frac{6}{10}$ on the hike and $\frac{3}{10}$ at camp. Which shows this decomposition?
- A. $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$ C. $\frac{7}{10} + \frac{1}{10} = \frac{8}{10}$
 B. $\frac{5}{10} + \frac{3}{10} = \frac{8}{10}$ D. $\frac{8}{10} + \frac{2}{10} = \frac{10}{10}$
- 4) When measuring an angle, which edge of the protractor must one ray of the angle lie along?
- A. The straight baseline edge C. The left curved side
 B. The rounded edge D. Any edge works equally well



5) Add: $\frac{2}{10} + \frac{30}{100}$.

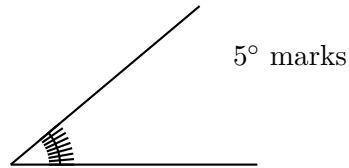
A. $\frac{32}{100}$

B. $\frac{50}{100}$

C. $\frac{32}{110}$

D. $\frac{2}{30}$

6)



This angle is marked from 0° to 40° . What is the measure?

A. 40°

B. 39°

C. 41°

D. 8 one-degree angles

7) Chen has 4 boxes of pencils. Each box has the same number of pencils. If Chen has 32 pencils total, how many pencils are in each box?

A. 6

B. 12

C. 10

D. 8

8) A bakery sold 12,345 cookies on Monday and 8,567 cookies on Tuesday. How many cookies did they sell in total?

A. 20,912

B. 21,012

C. 20,812

D. 21,112

9) An angle is made up of:

A. Three points

B. Two parallel lines

C. A vertex and two rays

D. Two line segments



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10) A basketball game starts at 6:00 p.m. and ends at 8:30 p.m. How long is the game?

Start	End
6:00 p.m.	8:30 p.m.

- A. 1 hour
 B. 2 hours
 C. 2 hours 30 minutes
 D. 3 hours

11) When a student computed $3 \times \frac{2}{5}$, they wrote $\frac{5}{5}$. What is the student's likely mistake?

- A. Added $3 + 2$ instead of multiplying
 3×2
 B. Changed the denominator from 5 to 10
 C. Correctly simplified the product
 D. Counted the units incorrectly

12) Which is the smallest fraction?

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

13) A rectangle is 11 meters long and 9 meters wide. What is its area?



14) Which two of the following equal $\frac{8}{12}$?

- A. $\frac{5}{12} + \frac{3}{12}$
 B. $\frac{11}{12} - \frac{2}{12}$
 C. $\frac{4}{6} + \frac{4}{6}$
 D. $\frac{6}{12} + \frac{2}{12}$
 E. $\frac{9}{12} - \frac{4}{12}$



1) A group has 73 cookies to pack into boxes of 12. How many complete boxes will they have? How many cookies will be left over?

A. 6 boxes, 2 left

C. 7 boxes, 1 left

B. 5 boxes, 13 left

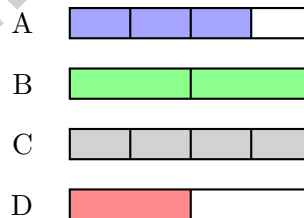
D. 6 boxes, 1 left

2)

?
28

A school has 28 basketballs. The number of basketballs is 4 times the number of soccer balls. How many soccer balls does the school have?

3) Which picture shows $\frac{3}{4}$ as a sum of unit fractions?



A. 3 of 4 parts

C. 4 of 4 parts

B. 2 of 2 parts

D. 1 of 2 parts



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- 4) Kai has $\frac{5}{8}$ of a chocolate bar. She gives $\frac{2}{8}$ to her friend. How much does she have left?

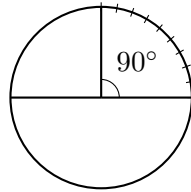


Kai has $\frac{5}{8}$

Gives $\frac{2}{8}$ away

$$\frac{5}{8} - \frac{2}{8} = ?$$

- A. $\frac{1}{8}$
 C. $\frac{7}{8}$
 B. $\frac{3}{8}$
 D. $\frac{2}{8}$
- 5)



A circle is divided into sections. The section shown contains 90 one-degree angles. What is the measure of this angle?

- A. 90°
 C. 180°
 B. 9°
 D. 45°
- 6) A hand sweeps clockwise from 12 to 9 on a clock. How many degrees did it sweep?
- A. 90°
 C. 270°
 B. 180°
 D. 360°
- 7) Which fraction with denominator 100 is equivalent to $\frac{3}{10}$?
- A. $\frac{3}{100}$
 C. $\frac{30}{100}$
 B. $\frac{13}{100}$
 D. $\frac{33}{100}$



1) Which area model shows 23×14 ?

A.

20	3
10	4

B.

20	4
10	4

C.

20	3
10	6

D.

20	3
10	5

2) What is $2 \times \frac{3}{4}$?

A. $\frac{6}{4}$ or $1\frac{1}{2}$

B. $\frac{3}{8}$

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

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

3) A student says $0.5 > 0.45$ because 5 is greater than 45. Is this reasoning correct?

A. Yes, the student is correct

C. No, $0.45 > 0.5$

B. No, you must compare place values,
not digits

D. The comparison cannot be made



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& answers

4) Ava read 4,623 pages in a book series. Round to the nearest hundred to estimate pages read.

A. 4,600

C. 4,700

B. 4,620

D. 5,000

5) A gardener has 256 grams of seeds to divide equally into 8 packets. How many grams of seeds are in each packet?

A. 32 g

C. 64 g

B. 48 g

D. 128 g

6) Add: $\frac{1}{10} + \frac{45}{100}$.

A. $\frac{46}{100}$

C. $\frac{55}{100}$

B. $\frac{46}{110}$

D. $\frac{1}{145}$

7) What is $1,428 \div 6$?

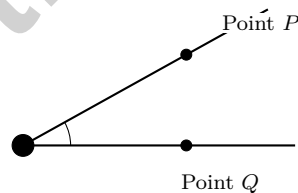
A. 238

C. 248

B. 242

D. 244

8)



Two points are marked on the sides of an angle. Which statement is always true?

A. Point P is the vertex

C. Both are on rays

B. Point Q is the vertex

D. Both are at the vertex



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 C is correct.** (4.1.2.3) The grid shows 92 shaded squares out of 100 total. That's $\frac{92}{100} = 0.92$.
- Choice A is correct.** (4.3.2.1) Since a straight angle measures 180° , subtract the known part: $180^\circ - 125^\circ = 55^\circ$.
- Choice A is correct.** (4.1.2.6) Diego used $\frac{6}{10}$ on the hike and $\frac{3}{10}$ at camp. Total water used: $6 + 3 = 9$, so $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$ ✓.
- Choice A is correct.** (4.3.2.1) The protractor has a flat edge (the baseline) where one ray must sit. This ray should align with the 0° mark on that straight edge. The curved edge is for reading the degree measure, not for placing the rays. The answer is the straight baseline edge.
- Choice B is correct.** (4.1.2.3) First, convert $\frac{2}{10}$ to hundredths: $\frac{2}{10} = \frac{20}{100}$. Now add the fractions: $\frac{20}{100} + \frac{30}{100} = \frac{50}{100}$.
- Choice A is correct.** (4.3.2.1) The angle extends to the 40° mark, so it measures 40° .
- Choice D is correct.** (4.2.2.1) Equal groups of pencils make a multiplication picture: $4 \times ? = 32$. To find the size of each group, divide: $32 \div 4 = 8$ pencils per box.
- Choice A is correct.** (4.1.1.3) To find the total sold, we add. $12,345 + 8,567 = 20,912$ cookies in total.
- Choice C is correct.** (4.3.2.2) Think of an angle as two rays (the sides) that meet at one point (the vertex). That point is like the hinge, and the rays are like the two flaps of the angle.
- Choice C is correct.** (4.1.2.5) The game starts at 6:00 p.m. and ends at 8:30 p.m. From 6:00 to 8:00 is 2 hours, plus 30 more minutes. Total: 2 hours 30 minutes. The game is 2 hours 30 minutes long.
- Choice A is correct.** (4.1.1.2) $3 \times \frac{2}{5}$ means 3 groups of $\frac{2}{5}$. The numerator is $3 \times 2 = 6$, not $3 + 2$. So the correct answer is $\frac{6}{5}$.
- Choice C is correct.** (4.1.2.1) All fractions have numerator 2. Larger denominator means smaller pieces, so the biggest denominator (6) gives the smallest fraction.
- The correct answer is 99 sq m.** (4.3.2.4) Area = $11 \times 9 = 99$ sq m.
- The correct answer is A, D.** (4.1.2.6) A: $5 + 3 = 8$ twelfths ✓. D: $6 + 2 = 8$ twelfths ✓. B: $11 - 2 = 9$ (wrong). C: $4 + 4 = 8$ sixths, not twelfths (wrong). E: $9 - 4 = 5$ (wrong).
- Choice D is correct.** (4.1.1.4) Two steps! Step 1: total muffins: $6 \times 24 = 144$. Step 2: pack into boxes of 9: $144 \div 9 = 16$ boxes (no remainder). *Quick check:* $16 \times 9 = 144$. ✓
- Choice B is correct.** (4.1.1.2) Each plant needs $\frac{1}{6}$ gallon, and Olivia has 8 plants. Multiply: $8 \times \frac{1}{6} = \frac{8 \times 1}{6} = \frac{8}{6} = 1\frac{1}{3}$ gallons. The answer is $1\frac{1}{3}$ gallons.
- Choice D is correct.** (4.2.2.1) "3 times as many" means we need exactly 3 equal groups. Model A shows 3 groups—so it matches the comparison. Model B shows only 2 groups, so it would represent "2 times as many," not 3.
- Choice D is correct.** (4.1.1.6) Think: $72 \div 8 = 9$, bring down the 8 to get $8 \div 8 = 1$. So each box holds **91** stickers.
- Choice A is correct.** (4.1.2.5) Apply "subtract 5" starting at 50. Term 1: 50. Term 2: $50 - 5 = 45$. Term 3: $45 - 5 = 40$. Term 4: $40 - 5 = 35$. So the first four terms are 50, 45, 40, 35, which matches choice A.
- Choice C is correct.** (4.1.2.6) Looking at the bar, it has 3 equal parts with 2 shaded. So the shaded fraction is $\frac{2}{3}$. As a sum of unit fractions: $\frac{2}{3} = \frac{1}{3} + \frac{1}{3}$ (two copies of the unit $\frac{1}{3}$). ✓
- Choice A is correct.** (4.1.2.1) Diego ate $\frac{4}{8}$ —simplify: $\frac{4}{8} = \frac{1}{2}$. Maya ate $\frac{2}{4}$ —simplify: $\frac{2}{4} = \frac{1}{2}$. They both ate half!
- Choice B is correct.** (4.3.2.1) The corners of a picture frame are right angles (perfect square corners).
- Choice D is correct.** (4.1.2.5) Hunt for factors beyond 1 and itself. 30 has lots of pairs: 2×15 , 3×10 , 5×6 . With more than two factors, 30 is **composite**.
- Choice C is correct.** (4.1.2.3) Add all the pebbles together: $2 + 4 + 1 = 7$ pebbles.
- Choice A is correct.** (4.1.1.2) The pie is cut into 4 equal pieces. Each piece is $\frac{1}{4}$ of the pie. Sam ate 3 pieces, so he ate $3 \times \frac{1}{4} = \frac{3}{4}$ of the pie.
- Choice C is correct.** (4.1.1.4) In 3,817, the digit 8 is in the hundreds place, so it represents **8** hundreds (or 800). ✓
- The correct answer is 60.** (4.1.1.4) The tens place (second from right) has the digit 6. Its value: $6 \times 10 = 60$ ✓



Hi, Math Detective!

◇ You did such a great job! You finished 7 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

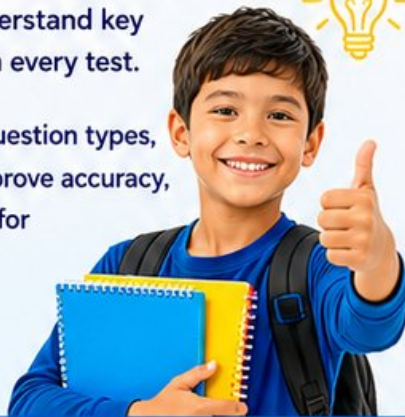
Jay Daie

Your Math Detective Helper

7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

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★ 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.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

TOPICS COVERED

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



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Mixed Question Types



Answer Key Included