

+ =

10 Minnesota MCA-III



GRADE 3

MATH

PRACTICE TESTS

✓ Complete Standards Review

✓ Skill Practice

✓ Word Problems
and Answer Key

2 × 7 + 4



★ ★ ★
PREPARE
PRACTICE
SUCCEED!
★ ★ ★



Aligned to
Grade 3 Math
Standards



Build Confidence
and Master
Math Skills



Test-Taking
Practice for
Success



Answer Key
for Easy
Review

10 Minnesota MCA-III Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 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!

Ten steady rounds on the North Star math route

This book gives you ten 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?

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.



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& answers

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1) Which missing divisor makes this division sentence true?

$$18 \div _ = 3$$

A. 5

C. 21

B. 15

D. 6

2) Which comparison is true?

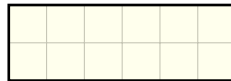
A. $\frac{2}{2} < \frac{2}{3}$

C. $\frac{2}{3} > \frac{2}{2}$ ($3 > 2$)

B. $\frac{2}{2} > \frac{2}{3}$ ($2/2 = \text{whole}$, $2/3 < \text{whole}$)

D. $\frac{2}{3} = \frac{2}{2}$

3) This grid shows a rectangle on unit squares.



What is the area in square units?

A. 8 sq units

C. 12 sq units

B. 10 sq units

D. 14 sq units

4) A store arranges tennis balls into groups of 9. If there are 63 tennis balls, how many groups are there?

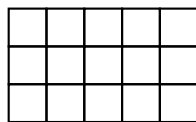
A. 7

C. 54

B. 8

D. 72

5) Look at this rectangle made of unit squares:



How many unit squares are there?

A. 8 unit squares

C. 15 unit squares

B. 12 unit squares

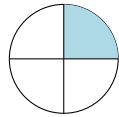
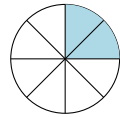
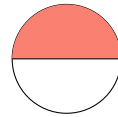
D. 20 unit squares



1) A rectangle is covered by 4 rows of 8 unit squares. How many unit squares cover it?

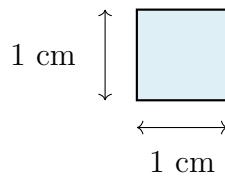
- A. 12 unit squares C. 24 unit squares
 B. 32 unit squares D. 36 unit squares

2) Which choice lists all the pie charts that show fractions equivalent to $\frac{1}{4}$?

Pie 1: $\frac{1}{4}$ Pie 2: $\frac{2}{8}$ Pie 3: $\frac{1}{2}$

- A. Pie 1 only C. Pies 1 and 2
 B. Pie 2 only D. All three pies
- 3) A student starts eating lunch at 11 : 38 AM. Recess starts at 12 : 04 PM. How many minutes until recess?

4) A unit square has side length 1 cm. What is the area of this unit square?



- A. 1 centimeter C. 1 square centimeter
 B. 2 square centimeters D. 4 square centimeters



- 5) If the unit fraction on a number line is $\frac{1}{8}$, how many such fractions fit from 0 to 1?

- 6) Lily paints a wall. She paints $\frac{4}{8}$ of the wall blue. Which fraction shows the same amount?

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

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

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

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

- 7) A rectangular table has a length of 8 inches and a width of 7 inches. Find the area of the table.

A. 30 sq in

C. 15 sq in

B. 112 sq in

D. 56 sq in

- 8) A floor has unit tiles arranged in 4 rows and 8 columns. How many unit tiles cover the floor?

A. 12

C. 24

B. 32

D. 48

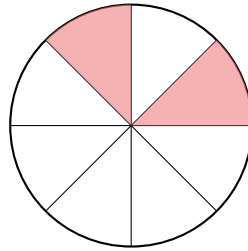


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1) Sam works 5 hours each day at the library. After 7 days, how many hours has he worked?

- A. 45 C. 30
 B. 40 D. 35

2) Here is a circle divided into 8 equal parts by lines from the center.



Two parts are shaded. What fraction is shaded?

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

3) Ben ran $\frac{5}{6}$ of a mile. Lily ran $\frac{5}{8}$ of a mile. Who ran farther?

- A. Ben C. They ran the same distance
 B. Lily D. Cannot tell from the fractions

4) A bar graph shows minutes played at recess. Each unit is 2 minutes. Sofia's bar is 5 units. How many minutes did Sofia play?

- A. 7 C. 12
 B. 10 D. 15



5) A number line from 0 to 1 is divided so there are exactly 4 equal parts. If you mark the first partition, what fraction do you mark?

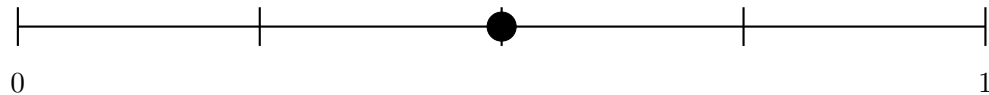
A. $\frac{1}{4}$

B. $\frac{1}{3}$

C. $\frac{1}{5}$

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

6) A number line shows 0 to 1 divided into 4 equal parts. The marked dot is closest to which fraction?



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

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

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

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

7) A bakery puts 20 cupcakes into boxes of 5. How many boxes do they fill?

A. 3

B. 100

C. 5

D. 4

8) What is 8×8 ?



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Practice Test Answer Keys

How to use this section with a Grade 3 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 D is correct.** **(3.4.1.1)** If $18 \div ? = 3$, then $? = 6$ because $6 \times 3 = 18$. Check: $18 \div 6 = 3$ is correct.
- 2) **Choice B is correct.** **(3.1.3.1)** Same numerator (2): two halves = 1 whole, two thirds = part of a whole. Halves are bigger pieces than thirds. Rule: same numerator, smaller denominator ($2 < 3$) means bigger pieces, so $\frac{2}{2} > \frac{2}{3}$.
- 3) **Choice C is correct.** **(3.3.2.1)** 6 units wide \times 2 units tall = 12 unit squares.
- 4) **Choice A is correct.** **(3.1.2.3)** Divide: $63 \div 9 = 7$ groups.
- 5) **Choice C is correct.** **(3.4.1.1)** Counting rows and columns: 5 units wide and 3 units tall gives $5 \times 3 = 15$ unit squares.
- 6) **Choice D is correct.** **(3.4.1.1)** Pile 1: $4 \times 3 = 12$. Pile 2: $5 \times 3 = 15$. Total: $12 + 15 = 27$.
- 7) **Choice C is correct.** **(3.1.2.1)** Add: $1000 + 500 + 500 = 2000$ mL.
- 8) **Choice A is correct.** **(3.1.2.3)** Shape 1: $2 \times 10 = 20$ square units. Shape 2: $4 \times 5 = 20$ square units. They have equal areas.
- 9) **Choice D is correct.** **(3.1.3.1)** $\frac{3}{3} = 1$, so the tick is at the right endpoint of the 0-to-1 segment.
- 10) **Choice D is correct.** **(3.1.2.1)** Add: $176 + 245 = 421$. Ones: $6 + 5 = 11$ (write 1, carry 1). Tens: $7 + 4 + 1 = 12$ (write 2, carry 1). Hundreds: $1 + 2 + 1 = 4$.
- 11) **The correct answer is 80 square feet.** **(3.2.2.1)** Area = length \times width, so $10 \times 8 = 80$ square feet.
- 12) **Choice D is correct.** **(3.1.2.5)** $4 \times 6 = 24$ and $4 \times 3 = 12$, so $24 + 12 = 36$. The distributive property shows $4 \times (6 + 3) = 4 \times 6 + 4 \times 3 = 36$.
- 13) **Choice A is correct.** **(3.1.3.2)** $\frac{1}{4}$ of a rectangle divided into 4 equal parts means coloring 1 part.
- 14) **Choice D is correct.** **(3.2.2.2)** $45 \div 9 = \square$ means $\square \times 9 = 45$. Since $5 \times 9 = 45$, each row has 5 stickers.
- 15) **Choice A is correct.** **(3.1.3.1)** $\frac{1}{4}$ is one part out of four equal parts, so it is at the first tick mark from 0.
- 16) **Choice B is correct.** **(3.2.1.1)** From 2 : 35 to 3 : 05 spans 2 intervals on the number line: $15 + 15 = 30$ minutes.
- 17) **Choices A and C are correct.** **(3.1.2.5)** $4 \times 5 = 20$ is right. $6 \times 6 = 36$ not 35. $9 \times 7 = 63$ is right. $5 \times 7 = 35$ not 36. $3 \times 9 = 27$ not 28.
- 18) **Choice B is correct.** **(3.1.2.2)** Step 1: Multiply: $2 \times 4 = 8$ tomato plants. Step 2: Add: $8 + 3 = 11$ plants. (Choice A is step 1 only.)
- 19) **Choice C is correct.** **(3.4.1.1)** Range = maximum - minimum = $10 - 8 = 2$ ounces.
- 20) **The correct answer is 4 units.** **(3.1.2.3)** Area = length \times width. Since $24 = 6 \times w$, the missing width is 4 units.
- 21) **Choice B is correct.** **(3.1.3.1)** Wide rectangle: $6 \times 2 = 12$ square units.
- 22) **Choice D is correct.** **(3.1.3.1)** Both A ($\frac{1}{2}$) and D ($\frac{2}{4}$) represent one-half of their rectangles.
- 23) **Choice D is correct.** **(3.3.1.1)** Left side: $7 \times 5 = 35$ sq units. Right side: $3 \times 2 = 6$ sq units. Total: $35 + 6 = 41$ sq units.
- 24) **Choice C is correct.** **(3.1.3.3)** A 3×3 checkerboard contains $3 \times 3 = 9$ unit squares.
- 25) **The correct answer is 240.** **(3.1.2.5)** $3 \times 8 = 24$, then add one zero to get 240: $3 \times 80 = 240$.
- 26) **Choice A is correct.** **(3.1.1.4)** When rounding to the nearest 10, we look at the ones digit to decide if we round up or down. The ones digit is 5, so 45 rounds to 50.
- 27) **Choice C is correct.** **(3.3.1.1)** A trapezoid has exactly one pair of parallel sides. The other quadrilaterals shown have two pairs of parallel sides or other properties.
- 28) **Choice B is correct.** **(3.1.3.3)** The shaded regions match. $\frac{1}{3}$ and $\frac{2}{6}$ are equivalent.
- 29) **Choice A is correct.** **(3.1.3.2)** A loaf cut into 8 equal slices has each slice as $\frac{1}{8}$ (one-eighth).
- 30) **Choice A is correct.** **(3.1.3.1)** Multiply the outside number by each part inside, then add.

Practice Test 2 Answers and Explanations



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A Quiet Word From Your Mentor

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 10 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

Mentor's note: on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

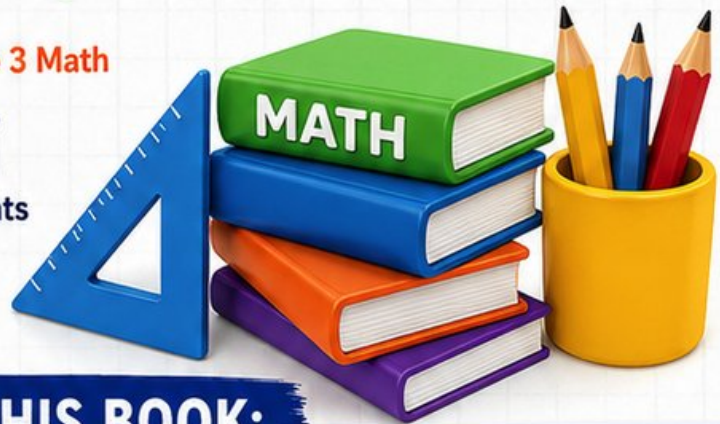
If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Mentor

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