

# 6

# Minnesota MCA III

## GRADE 3

# MATH

## PRACTICE TESTS

Standards-Aligned Practice with  
Review, Answer Keys, and Explanations



6 Full-Length  
Practice Tests



Detailed Answer Keys  
and Explanations



Master Skills.  
Boost Scores.  
Succeed!

# 6 Minnesota MCA-III Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Six complete 30-question practice labs for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome to the Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

## To the Grade 3 Math Builder

This book gives you six practice labs for the Minnesota MCA-III. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Minnesota brings lake maps, river trails, snowy parks, and northern lights. Strong math uses that same care: read the task, select a strategy, build the solution, and stay accurate even when the work gets long.

### Decode

Find the question, the units, and the useful numbers.

### Design

Use an equation, array, number line, graph, or sketch.

### Confirm

Make sure the answer matches the question.

**Six-lab promise:** I will work with patience, show useful thinking, and treat corrections as part of learning.

# How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For Minnesota students, each lab is a short route through lake maps, river trails, snowy parks, and northern lights: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

**Best review habit:** A mistake is most useful when you can say why it happened and what you will do differently next time.



## What Is Inside?

Six complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–6	Solve six different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Minnesota Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Minnesota MCA-III path.



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1) Marcus has 15 toy cars and his friend gives him 9 more. They divide all the cars equally among 3 children. Let  $m$  be the number of cars each child gets. Which equation is correct?

A.  $m = (15 + 9) \div 3$

C.  $m = (15 + 9) - 3$

B.  $m = 15 + 9 \div 3$

D.  $m = 15 \times 9 \div 3$

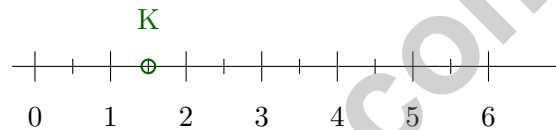
2) Sofia buys packages of toy blocks. Each package has 20 blocks. She buys 6 packages. How many blocks does she have?

A. 26

C. 120

B. 62

D. 200



3)

The number line from 0 to 6 is divided into halves. Point  $K$  is at 1.5. Write point  $K$  as an improper fraction.

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

C.  $\frac{6}{2}$

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

D.  $\frac{12}{2}$

4) The pattern for multiples of 7 starts: 7, 14, 21, 28, 35, 42, ...  
What is the next number?

A. 43

C. 49

B. 48

D. 50



5) Noah has 28 flowers. He puts them equally into 4 vases. How many flowers are in each vase?

A. 6

C. 24

B. 32

D. 7

6) Use the multiplication fact  $6 \times 9 = 54$  to write a division equation.

A.  $54 \div 6 = 9$

C.  $9 \div 6 = 1$

B.  $54 \div 9 = 6$

D.  $54 + 6 = 60$

7) What whole number equals  $\frac{10}{2}$ ?

A. 2

C. 10

B. 5

D. 3

8) A small garden is shaped like a rectangle. Its dimensions are 5 meters by 4 meters. What is the total area?

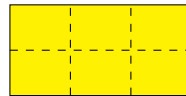
A. 9 sq m

C. 18 sq m

B. 20 sq m

D. 25 sq m

9)



This rectangle is divided into equal parts. How many parts are there?

A. 8 parts

C. 5 parts

B. 4 parts

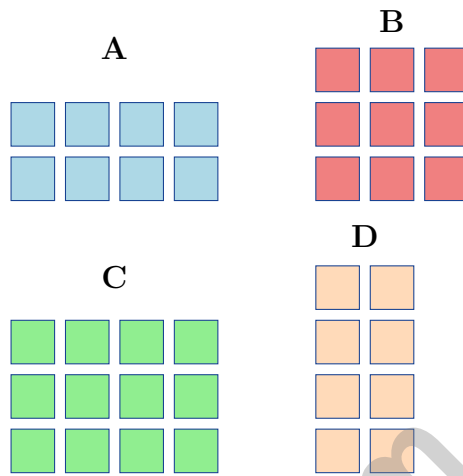
D. 6 parts



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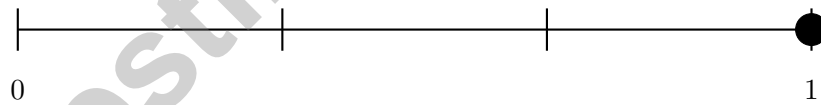
1) Which array shows  $4 \times 3$ ?



2) A baker needs to multiply 400 g of sugar by 2 to make a bigger batch. How many grams of sugar does he need?

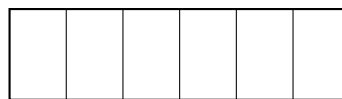
- A. 400 g                       C. 800 g  
 B. 600 g                       D. 1000 g

3) What fraction is at the third (last) tick mark on a 3-part number line from 0 to 1?



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

4) A rectangle is divided equally. One part is  $\frac{1}{6}$  of the whole. How many equal parts is the rectangle divided into?



- A. 4 parts                               C. 3 parts  
 B. 8 parts                               D. 6 parts

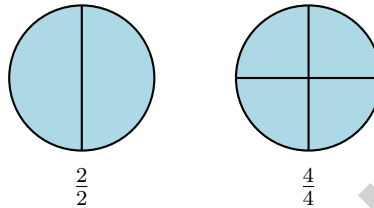


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5) A line plot shows pencil lengths in inches:  $5, 5\frac{1}{2}, 6, 6\frac{1}{2}$ . There are 2 X's at 5 inches and 1 X at 6 inches. If the mode is  $5\frac{1}{2}$  inches, what is the least possible number of X's at the mode?

- A. 1                       C. 3  
 B. 2                       D. 5

6) Look at the circle models. Which shows 1 whole in two different ways?



- A. Only the left shows 1                       C. Only the right shows 1  
 B. Both show 1 whole                       D. Neither shows 1

7) How many unit squares (1 in.  $\times$  1 in.) cover a 3 in. by 6 in. rectangle?

- A. 9 unit squares                       C. 18 unit squares  
 B. 12 unit squares                       D. 24 unit squares

8) A number line from 0 to 1 has 6 tick marks total, including 0 and 1. How many equal parts are there?

- A. 4                       C. 6  
 B. 5                       D. 7



1) Two classrooms have 15 students each. They combine and make groups of 5. How many groups are there?

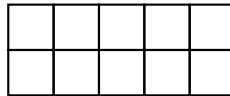
A. 5

C. 15

B. 6

D. 30

2) This shape shows a  $2 \times 5$  rectangle:



What is the total area?

A. 14 sq units

C. 20 sq units

B. 7 sq units

D. 10 sq units

3) Ava eats 2 of 4 pizza slices. What fraction did she eat in simplest form?

4) Two identical sandwiches are served. Sandwich A is cut into 4 pieces with 1 eaten. Sandwich B is cut into 8 pieces with 2 eaten. How much is left uneaten?

A. Same amount is left.

C. Sandwich B has more left.

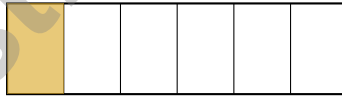
B. Sandwich A has more left.

D. Cannot tell.



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- 5) Which pair of numbers always has an even product?
- A. Two odd numbers
- B. An odd number and any other whole number
- C. Two odd numbers or two even numbers
- D. An even number and any other whole number
- 6) A pizza shop made 312 pizzas on Friday and 289 pizzas on Saturday. How many pizzas did the shop make in total?
- A. 501
- B. 610
- C. 511
- D. 601
- 7) Ava has 20 beads. She wants to make 5 equal bracelets. How many beads are on each bracelet?
- A. 3
- B. 25
- C. 15
- D. 4
- 8) A rectangle is divided into equal parts. Ben needs to shade  $\frac{1}{6}$  of the rectangle. The rectangle has 6 equal parts. How many parts should Ben shade?



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



## 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 A is correct.** (3.1.2.2) First add:  $15 + 9 = 24$  cars. Then divide by 3 children:  $24 \div 3 = 8$  cars per child. Choice A correctly shows both steps with parentheses.
- 2) **Choice C is correct.** (3.1.2.5) 6 packages of 20 blocks =  $6 \times 20 = 120$  blocks. Multiply  $6 \times 2 = 12$ , then add one zero.
- 3) **Choice B is correct.** (3.1.3.1) Point  $K$  at 1.5 is the third half-mark:  $\frac{3}{2} = 1.5$ .
- 4) **Choice C is correct.** (3.2.1.1) Add 7 each time:  $42 + 7 = 49$ . Multiples of 7 always increase by 7.
- 5) **Choice D is correct.** (3.4.1.1)  $28 \div 4 = 7$ . The 28 flowers are shared equally among 4 vases.
- 6) **Choice A is correct.** (3.2.2.2) From  $6 \times 9 = 54$ , one related division equation is  $54 \div 6 = 9$  (the answer is the factor 9). Option B reverses correctly but is also valid; A is the expected answer. Options C and D use wrong operations.
- 7) **Choice B is correct.** (3.1.3.1) 10 halves  $\div$  2 halves per whole =  $10 \div 2 = 5$  wholes.
- 8) **Choice B is correct.** (3.1.2.3) Area =  $5 \times 4 = 20$  square meters.
- 9) **Choice D is correct.** (3.1.3.1) The rectangle has 3 columns and 2 rows of equal parts. So  $3 \times 2 = 6$  parts in total.
- 10) **Choice D is correct.** (3.1.3.3) Floor area =  $7 \text{ m} \times 6 \text{ m} = 42$  square meters = 42 unit-square tiles of 1 m each.
- 11) **Choice B is correct.** (3.1.3.1) Three thirds is one whole. Three sixths is half. So  $\frac{3}{3} > \frac{3}{6}$ .
- 12) **Choice B is correct.** (3.2.2.1) Area = length  $\times$  width =  $7 \times 5 = 35$  square feet. Choice A (12) is the sum  $7 + 5$ ; Choice C (24) is common product error; Choice D (70) is double the area.
- 13) **Choice B is correct.** (3.1.3.2) If each part is  $\frac{1}{2}$ , the shape is divided into 2 equal parts.
- 14) **Choice A is correct.** (3.1.1.4) Numbers from 450 to 549 round to 500 when rounded to the nearest 100. So yes, any number that rounds to 500 must be at least 450.
- 15) **Choice B is correct.** (3.1.3.1)  $\frac{3}{6} = \frac{1}{2}$  because both represent one-half.
- 16) **The correct answer is 20.** (3.2.1.1)  $6 : 35$  is 20 minutes after 6 : 15.
- 17) **Choices A and B are correct.** (3.1.3.1)  $\frac{1}{2} = \frac{2}{4}$  because both represent the same distance: halfway from 0 to 1. The other fractions name different points.
- 18) **The correct answer is 2 X's.** (3.4.1.1) Two leaves measured exactly  $2\frac{1}{4}$  inches, so there would be 2 X's above the  $2\frac{1}{4}$  mark.
- 19) **Choice B is correct.** (3.1.3.3) The shaded regions match.  $\frac{1}{4}$  and  $\frac{2}{8}$  are equivalent.
- 20) **Choice D is correct.** (3.1.2.5)  $6 \times 8 = 48$ . You can think of 6 groups of 8, or 8 groups of 6.
- 21) **Choice A is correct.** (3.1.3.1) Both rectangles show the same shaded area.  $\frac{3}{4} = \frac{6}{8}$  because  $\frac{3 \times 2}{4 \times 2} = \frac{6}{8}$ .
- 22) **Choice C is correct.** (3.1.3.2) The denominator equals the total number of equal parts. A rectangle with 4 equal parts has a denominator of 4, so one part is  $\frac{1}{4}$ .
- 23) **Choice D is correct.** (3.2.2.1) From the fact family,  $7 \times 6 = 42$ .
- 24) **Choice A is correct.** (3.1.2.1) 10 kg = 10000 g, which is more than 3000 g.
- 25) **Choice A is correct.** (3.1.2.1) Ones:  $5 - 1 = 4$ . Tens:  $3 - 4$  requires regrouping, so  $13 - 4 = 9$ . Hundreds:  $5 - 2 = 3$ . Answer: 394.
- 26) **Choice C is correct.** (3.3.2.1) Count the bottom row: 5 squares. Count the left column above: 3 more. Count the right column above: 3 more. Total:  $5 + 3 + 3 = 11$  unit squares.
- 27) **The correct answer is trapezoid.** (3.3.1.1) There are many quadrilaterals beyond rectangles, squares, and rhombuses. A trapezoid (with one pair of parallel sides) is one example. Students may also draw an irregular quadrilateral with no parallel sides.
- 28) **Choice A is correct.** (3.1.3.1) One of eight equal parts is called one eighth.
- 29) **Choice D is correct.** (3.1.2.3) Divide:  $35 \div 5 = 7$  cards per friend.
- 30) **Choice D is correct.** (3.1.2.5) By the commutative property, you can switch the order of factors.  $6 \times 4 = 24$  and  $4 \times 6 = 24$ .



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## Hi, Math Inventor!

◇ 6 practice tests. 6 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

### Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

**Inventor tip:** on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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 Inventor

# BUILD CONFIDENCE. MASTER MATH. ACHIEVE SUCCESS!



This **Grade 3 Math Practice Tests** book is the perfect companion for students who want to strengthen their math skills and excel in school. With **6** full-length practice tests designed to reflect real test formats, students get the practice they need to understand key concepts, build problem-solving skills, and tackle any challenge with confidence.

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SUCCEED TOMORROW!**

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### Achieve Success

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- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
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- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
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Aligns with Grade 3 Learning Standards



Builds Critical Thinking & Problem-Solving