

5

Minnesota

MCA III

GRADE 3

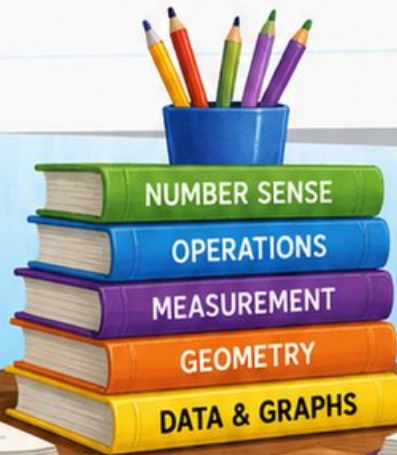
MATH

PRACTICE TESTS

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

$24 \div 3 = 8$

$125 + 37$



5 FULL-LENGTH PRACTICE TESTS



STANDARDS-ALIGNED PRACTICE



DETAILED ANSWER KEYS



CLEAR EXPLANATIONS TO HELP YOU SUCCEED

5 Minnesota MCA-III Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five focused 30-question checkpoints for Grade 3 math: facts, 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 Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the Minnesota MCA-III. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Minnesota has lake paths, snowy mornings, river bluffs, and maps where every marker helps. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

Notice

Circle key words, units, and numbers before you start.

Build

Use arrays, number lines, equations, tables, or sketches.

Verify

Ask, “Does this answer fit the question?”

Five-checkpoint promise: I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

Best review habit: Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	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. That mix gives students practice with quick choices, careful reasoning, and short written answers.

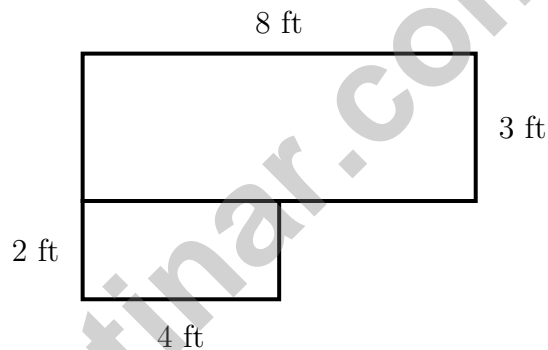


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- 1) Mia gives 3 friends 8 stickers each. How many stickers does she give in all?
- A. 11 stickers (adds $3 + 8$) C. 21 stickers (off by one group: 3×7)
 B. 17 stickers (counts partial: $8 + 8 + 1$) D. 24 stickers
- 2) Noah has 12 toy cars. He wants to make 2 equal rows. How many cars will be in each row?
- A. 5 C. 10
 B. 14 D. 6
- 3) An L-shaped pool is made of two rectangles. The first is 8 ft long and 3 ft wide. The second is 4 ft long and 2 ft wide. What is the total area?



- A. 24 sq ft C. 48 sq ft
 B. 8 sq ft D. 32 sq ft
- 4) In a multiplication table, the diagonal shows: $1 \times 1 = 1$, $2 \times 2 = 4$, $3 \times 3 = 9$, $4 \times 4 = 16$.
What is 5×5 ?
- A. 20 C. 25
 B. 24 D. 30



5) Look at this pattern: $3 \times 10 = 30$, $3 \times 20 = 60$, $3 \times 30 = 90$. Using the pattern, what is 3×70 ?

A. 37

C. 210

B. 73

D. 2100

6) Eli drinks juice from a bottle. The bottle contained 1 liter. After he drinks some, 300 mL remains. How much juice did he drink?

A. 300 mL

C. 700 mL

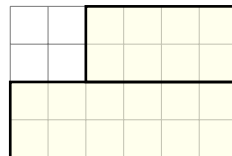
B. 500 mL

D. 1000 mL

7) A rectangle has perimeter 30 inches and length 10 inches. Find the width.



8) This grid shows a step-shaped figure made of unit squares. Count by breaking it into parts.



How many unit squares cover this step shape?

A. 12 sq units

C. 20 sq units

B. 16 sq units

D. 24 sq units



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9) Look at the fact family:

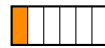
$3 \times 8 = 24$	$8 \times 3 = 24$
$24 \div 3 = 8$	$24 \div 8 = 3$

Which equation is part of this fact family?

- A. $24 \div 8 = 4$
 C. $20 \div 3 = 8$
 B. $24 \div 4 = 8$
 D. $24 \div 3 = 8$



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



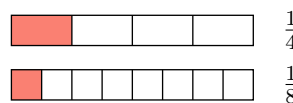
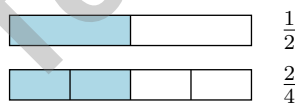
$\frac{1}{6}$
pizza B

10)

The bars show $\frac{1}{4}$ of pizza A and $\frac{1}{6}$ of pizza B. Pizza B is bigger than pizza A. Can you say $\frac{1}{4} > \frac{1}{6}$?

- A. Yes, because fourths are always bigger than sixths
 B. No, we can only compare when the wholes are the same size
 C. Yes, the picture shows it
 D. No, because 6 is bigger than 4

11) Look at the fraction bars below. Which fractions are equivalent?



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

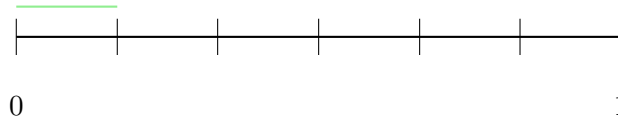


1) A rope is divided into 8 equal sections. What unit fraction describes one section?

- A. $\frac{1}{8}$
 B. $\frac{8}{1}$

- C. $\frac{2}{8}$
 D. $\frac{1}{9}$

2) This number line goes from 0 to 1 with 6 equal parts. The shaded region shows one part. What is the unit fraction?



- A. $\frac{1}{6}$
 B. $\frac{1}{5}$

- C. $\frac{2}{6}$
 D. $\frac{3}{6}$

3) Ava's dentist appointment is at 3 : 45 PM. She arrives 12 minutes early. What time does Ava arrive?

- A. 3 : 30 PM
 B. 3 : 33 PM

- C. 3 : 57 PM
 D. 4 : 00 PM

4) Lily wrote these four facts about the same numbers. Which one does NOT belong in the fact family?

- A. $36 \div 6 = 6$
 B. $9 \times 4 = 36$

- C. $36 \div 9 = 4$
 D. $4 \times 9 = 36$

5) A rectangle is divided into 3 equal parts. Two parts are shaded. What fraction of the rectangle is NOT shaded?



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

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



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1) Lily has 6 whole crayons. Which shows this as a fraction?

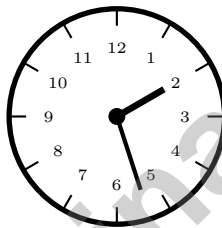
- A. $\frac{1}{6}$
 B. $\frac{6}{1}$

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

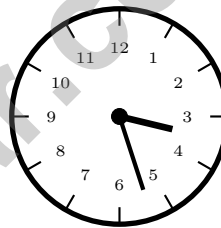
2) What is 389 rounded to the nearest 10?

3) Which clock shows 3 : 27?

Clock 1



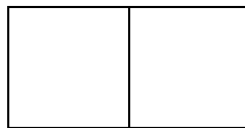
Clock 2



- A. Clock 1
 B. Clock 2

- C. Neither
 D. Both

4) A rectangle can be divided into equal parts in different ways. Which way shows the rectangle divided into 2 equal parts?



- A. One vertical line through the middle
 B. Two vertical lines
 C. Two horizontal lines and two vertical lines
 D. One diagonal line and one vertical line



5) Ordering fractions: which list goes from smallest to largest?

A. $\frac{1}{8}, \frac{1}{4}, \frac{1}{2}$

C. $\frac{1}{4}, \frac{1}{8}, \frac{1}{2}$

B. $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}$

D. $\frac{1}{8}, \frac{1}{2}, \frac{1}{4}$

6) Ben is marking $\frac{2}{4}$ on a number line from 0 to 1. He divides it into 4 equal parts. Which tick mark should he label?

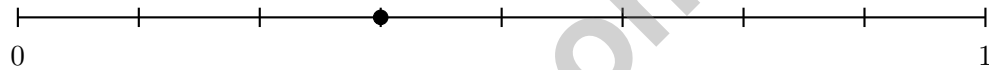
A. The 1st tick

C. The 3rd tick

B. The 4th tick

D. The 2nd tick

7) A number line goes from 0 to 1 and has 8 equal parts. The point shown is at which fraction?



A. $\frac{1}{8}$

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

B. $\frac{2}{8}$

D. $\frac{4}{8}$

8) Which shape has an area of 20 square units?

A. A 2×8 rectangle

C. A 3×6 rectangle

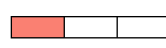
B. A 4×5 rectangle

D. A 2×9 rectangle

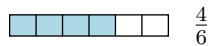
9) Which two fraction bars show equivalent fractions?



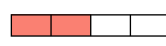
$\frac{2}{3}$



$\frac{1}{3}$



$\frac{4}{6}$



$\frac{2}{4}$

A. $\frac{2}{3}$ and $\frac{4}{6}$

C. $\frac{1}{3}$ and $\frac{2}{4}$

B. $\frac{2}{3}$ and $\frac{1}{3}$

D. $\frac{4}{6}$ and $\frac{2}{4}$



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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.OA.A.1)** 3 friends with 8 stickers each means 3 groups of 8. So $3 \times 8 = 24$ stickers in all.
- 2) **Choice D is correct.** **(3.OA.A.2)** $12 \div 2 = 6$. The 12 cars are shared equally into 2 rows.
- 3) **Choice D is correct.** **(3.MD.C.7d)** Rectangle 1: $8 \times 3 = 24$ sq ft. Rectangle 2: $4 \times 2 = 8$ sq ft. Total: $24 + 8 = 32$ sq ft.
- 4) **Choice C is correct.** **(3.OA.D.9)** $5 \times 5 = 25$. This is sometimes called a “perfect square”.
- 5) **Choice C is correct.** **(3.NBT.A.3)** The pattern shows: each time we multiply by a multiple of 10 that is 10 more, the product increases by 30. From $3 \times 60 = 180$ to 3×70 , we add another 30 to get 210. Or: $3 \times 7 = 21$, then multiply by 10 to get 210.
- 6) **Choice C is correct.** **(3.MD.A.2)** 1 L = 1000 mL. Subtract: $1000 - 300 = 700$ mL drunk.
- 7) **The correct answer is 5 inches.** **(3.MD.D.8)** $30 = 2(10) + 2w = 20 + 2w$, so $2w = 10$ and $w = 5$ in.
- 8) **Choice C is correct.** **(3.MD.C.6)** Count bottom part: $6 \times 2 = 12$ squares. Count top-right part: $4 \times 2 = 8$ squares. Total: $12 + 8 = 20$ unit squares.
- 9) **Choice D is correct.** **(3.OA.A.4)** In this fact family, $24 \div 3 = 8$. This is the division equation that matches the multiplication $3 \times 8 = 24$.
- 10) **Choice B is correct.** **(3.NF.A.3d)** CRITICAL: Fraction comparisons are ONLY valid when both fractions describe the same-size whole. Since pizza B is bigger than pizza A, $\frac{1}{4}$ of the smaller pizza may actually be bigger than $\frac{1}{6}$ of the larger pizza. We cannot compare them. Standard 3.NF.A.3.d requires recognizing that comparisons are valid only when the two fractions refer to the same whole.
- 11) **Choice C is correct.** **(3.NF.A.3b)** Both bars show the same shaded length. When you split each half into 2 equal parts, 1 half becomes 2 fourths. So $\frac{1}{2} = \frac{2}{4}$.
- 12) **Choice B is correct.** **(3.NF.A.3c)** 12 sixths divided into groups of 6 sixths (one whole) gives 2 wholes. $12 \div 6 = 2$.
- 13) **Choices A and C are correct.** **(3.MD.C.5a)** Choice A is correct: a unit square has a side length of 1 unit. Choice C is correct: it is the building block for measuring area. Choice B is wrong (area is 1 square unit, not 2). Choice D is wrong (all sides are equal to 1 unit). Choice E is wrong (color is not part of the definition).
- 14) **Choice B is correct.** **(3.NF.A.2)** Sam is at tick 1 and Maya is at tick 3. The distance between them is $3 - 1 = 2$ parts.
- 15) **Choice B is correct.** **(3.MD.B.4)** At $5\frac{1}{2}$, there is only 1 X. At 5 and 6 there are 2 each, and at $5\frac{3}{4}$ there are 4.
- 16) **Choice D is correct.** **(3.OA.D.8)** Step 1: Desks in rows: $4 \times 6 = 24$ desks. Step 2: Add more: $24 + 8 = 32$ desks total.
- 17) **Choice A is correct.** **(3.MD.C.5)** Shape X has an area of 15 square units, which is larger than Shape Y’s 9 square units. More space inside means greater area.
- 18) **Choice C is correct.** **(3.MD.C.7)** The grid has 7 columns and 4 rows. Area = $7 \times 4 = 28$ square cm. You can also add: $7 + 7 + 7 + 7 = 28$ (four rows of seven).
- 19) **Choice A is correct.** **(3.NF.A.3)** Sam ate $\frac{1}{3}$, which is equivalent to $\frac{2}{6}$.
- 20) **The correct answer is $\frac{1}{6}$.** **(3.NF.A.1)** One of 6 equal parts is $\frac{1}{6}$.
- 21) **Choice B is correct.** **(3.G.A.1)** A trapezoid is defined by having exactly one pair of parallel sides. This is what makes it different from a parallelogram.
- 22) **Choice C is correct.** **(3.MD.C.5b)** 6 wide and 2 tall: $6 \times 2 = 12$ unit squares.
- 23) **Choice A is correct.** **(3.MD.A.1)** At 8 : 42, the minute hand is between 8 and 9, and the hour hand is between 8 and 9 closer to 9. Option A shows this correctly.
- 24) **Choice D is correct.** **(3.OA.B.6)** The multiplication fact $3 \times 5 = 15$ tells us that 15 beads divided into 3 necklaces gives 5 beads each. $15 \div 3 = 5$.
- 25) **Choice A is correct.** **(3.MD.C.7c)** $35 = 7 \times 5$ and $21 = 7 \times 3$, so total is $7 \times (5 + 3) = 7 \times 8 = 56$.
- 26) **Choice B is correct.** **(3.G.A.2)** If 2 out of 6 parts are shaded, then $6 - 2 = 4$ parts are not shaded, which is $\frac{4}{6}$.
- 27) **The correct answer is 3.** **(3.NF.A.2a)** The denominator 3 tells us there are 3 equal parts total.
- 28) **Choice B is correct.** **(3.MD.B.3)** Blue: $5 \times 2 = 10$ ribbons. Red: $3 \times 2 = 6$ ribbons. More: $10 - 6 = 4$.
- 29) **Choice A is correct.** **(3.OA.B.5)** Both arrays show 10 total squares. Array A is 2×5 and Array B is 5×2 , showing the commutative property.



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Hi, Math Pilot!

◇ 5 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

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

Jay Daie

Your Math Pilot

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- ✓ Data & Graphs
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- ✓ And More!



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

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ - 178 \\ \hline = 274 \end{array}$$



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