

8

Missouri MAP

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



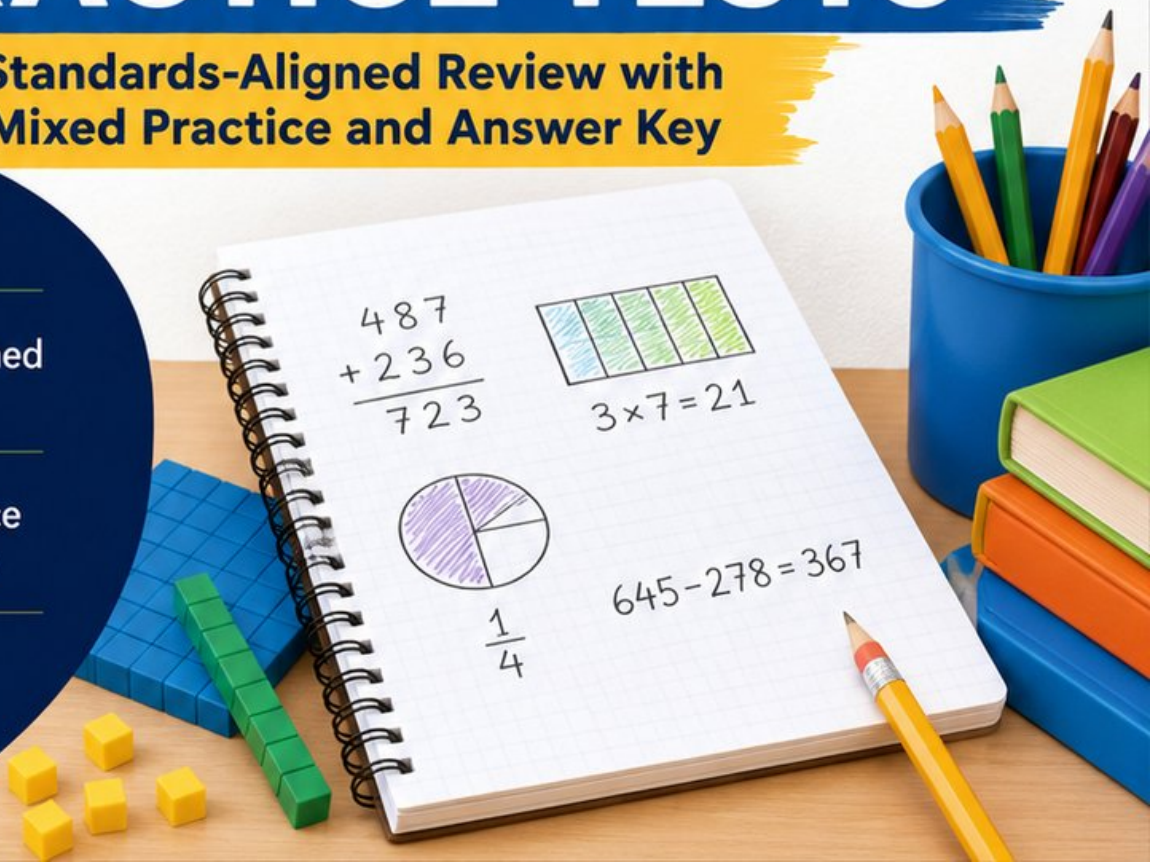
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 Missouri MAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight complete 30-question practice rounds 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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Missouri, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the Missouri MAP. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

Missouri has river arches, cave tours, farm roads, city neighborhoods, and strong school routines, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and test each answer against the question.

Your Missouri Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

Eight rounds. Thirty questions each. One careful step at a time.

How to Use This Book

A simple eight-round routine for confident review

Use this Missouri book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

Best review habit: In Missouri, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



What Is Inside the Eight Tests?

Mixed Grade 3 math practice for the MAP

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

Missouri focus: The practice path starts with river arches, cave tours, farm roads, city neighborhoods, and strong school routines. Strong math uses the same idea: know the path, follow the clues, and check the final answer.

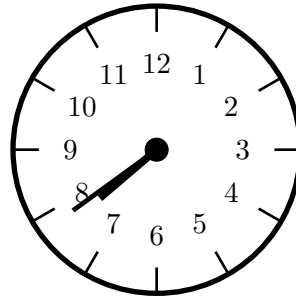


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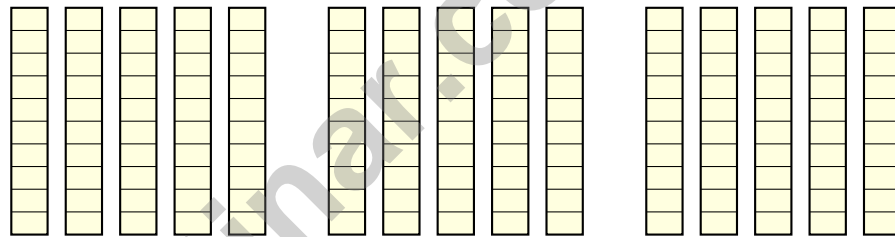
★ Practice Test 1	_____	15
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1) What time does the clock show?



- A. 6 : 39 C. 8 : 09
 B. 7 : 50 D. 7 : 39

2) Three groups of base-ten rods are shown. Each group has 5 rods. Each rod is worth 10. How many units in total?



Group 1: $5 \times 10 = 50$ Group 2: $5 \times 10 = 50$ Group 3: $5 \times 10 = 50$

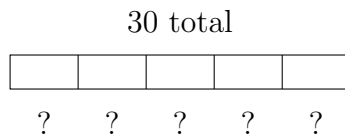
Total: $3 \times (5 \times 10) = ?$

- A. 15 C. 150
 B. 50 D. 510



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3) Which division equation matches this bar model showing 30 split into 5 equal parts?



A. $30 \times 5 = 150$

C. $5 + 6 = 11$

B. $30 - 5 = 25$

D. $30 \div 5 = 6$

4) A rectangle has length 4 and width 2. How many sides does it have?



5) A picture graph shows stickers in an envelope. Each square represents 2 stickers. Count the symbols shown in the picture graph.

Envelope:

= 2 stickers

A. 4 stickers

C. 10 stickers

B. 8 stickers

D. 12 stickers

6) Which pair of numbers always has an even product?

A. Two odd numbers

C. Two odd numbers or two even numbers

B. An odd number and any other whole number

D. An even number and any other whole number



1) Sam solved this problem: $\square \times 8 = 56$. He wrote the answer $\square = 7$. Is his answer correct?

- A. Yes, because $7 \times 8 = 56$. C. No, the correct answer is 8.
 B. No, the correct answer is 6. D. No, the correct answer is 9.

2) A line plot shows rainfall amounts in inches: $1, 1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{4}, 2$. If there are 2 days with 1 inch, 3 days with $1\frac{1}{4}$ inches, 2 days with $1\frac{1}{2}$ inches, and 1 day with $1\frac{3}{4}$ inches, how many days had 2 inches if the total is 10 days?

- A. 1 C. 3
 B. 2 D. 4

3) A bar graph shows inches of rainfall. Each unit on the scale represents 10 inches. If a bar is 3 units tall, how many inches of rainfall does it represent?



4) Tom's teacher asked him to match 8×2 to a picture. Which picture is correct?

- A. Eight rows of 8 objects each D. Eight separate groups with 2
 B. Two rows of seven objects each objects in each
 C. A single group of ten objects

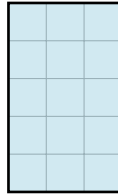
5) Lily tiles a wall with unit squares (1 foot by 1 foot). The wall is 8 feet wide and 2 feet tall. How many tiles does she need?

- A. 10 tiles C. 14 tiles
 B. 12 tiles D. 16 tiles



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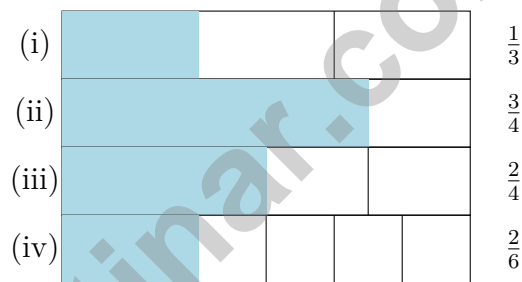
6) This rectangle is divided into unit squares on a grid.



What is the area?

- A. 8 sq units
- B. 15 sq units
- C. 20 sq units
- D. 25 sq units

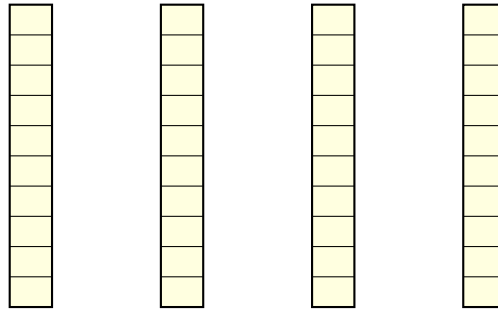
7) Look at the fraction bars below. Which pair shows equivalent fractions (same-size shaded regions)?



- A. (i) and (ii)
- B. (iii) and (iv)
- C. (ii) and (iii)
- D. (i) and (iv)

8) Noah has $\frac{12}{2}$ sheets of paper. How many whole sheets does he have?

1) How many units are shown by these base-ten rods?



$$4 \times 10 = ?$$

- A. 14 C. 410
 B. 40 D. 140
- 2) What is $28 \div 4$?
- A. 6 C. 8
 B. 7 D. 4
- 3) A composite shape breaks into three rectangles: one 5 units by 3 units, and two 2 units by 3 units each. What is the total area?
- A. 15 sq units C. 27 sq units
 B. 6 sq units D. 90 sq units
- 4) Two identical squares are divided into equal parts. Square A has 2 parts shaded out of 4. Square B has 3 parts shaded out of 6. Is the shaded area the same?
- A. Cannot tell without measuring. C. Yes, same area.
 B. No, Square B is larger. D. No, Square A is larger.



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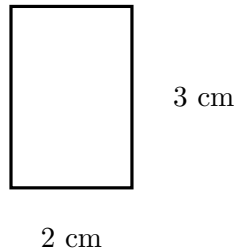
5) Three children saved money. Ben saved \$145, Lily saved \$208, and Noah saved \$197. How much did they save in total?

A. \$550

C. \$450

B. \$540

D. \$560



6)

What is the area of this rectangle?

A. 5 sq cm

C. 8 sq cm

B. 6 sq cm

D. 12 sq cm

7) Ava sorts apples into 5 equal groups. There are apples in each group. There are 40 apples in total.

$$5 \times \square = 40$$

A. 7

C. 9

B. 6

D. 8

8) A rectangle with dimensions 10×9 is split by a vertical line into two parts. If one part is 10×4 , what is the correct distributive equation?

A. $10 \times 9 = 10 \times (4 + 5) = (10 \times 4) +$

C. $4 + 5 = 9$

$(10 \times 5) = 40 + 50 = 90$

D. $10 \times 4 = 40$ only

B. $10 + 9 = 19$



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.GM.B.6)** The minute hand points to 39 minutes, between 7 and 8. The hour hand is between 7 and 8, closer to 8. The time is 7 : 39.
- 2) **Choice C is correct.** **(3.NBT.A.4)** 3 groups of (5×10) equals $3 \times 50 = 150$. Or: Each group has 50 units; $50 + 50 + 50 = 150$.
- 3) **Choice D is correct.** **(3.RA.A.5)** A bar model dividing a total into equal parts shows division. 30 split into 5 equal parts means each part is $30 \div 5 = 6$.
- 4) **The correct answer is 4 sides.** **(3.GM.A.1)** A rectangle is a quadrilateral, so it has 4 sides.
- 5) **Choice C is correct.** **(3.DS.A.2)** Count: 5 squares in the picture graph. Multiply by scale: $5 \times 2 = 10$ stickers.
- 6) **Choice D is correct.** **(3.RA.E.11)** Even \times even = even, and even \times odd = even. Only odd \times odd = odd.
- 7) **Choice A is correct.** **(3.NF.A.1)** Rectangle A is divided into 4 equal parts with 1 shaded, which is $\frac{1}{4}$. Rectangle B has unequal parts, so it does not show $\frac{1}{4}$.
- 8) **Choice D is correct.** **(3.RA.A.1)** 7 tables with 8 books each means 7 groups of 8. So $7 \times 8 = 56$ books.
- 9) **Choice A is correct.** **(3.NBT.A.1)** 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.
- 10) **Choice B is correct.** **(3.GM.B.8)** Subtract: $280 - 250 = 30$ g.
- 11) **Choice C is correct.** **(3.NF.A.5)** Pie 1 shows $\frac{1}{4}$ and Pie 2 shows $\frac{2}{8}$. Both show one-quarter shaded. They are equivalent: $\frac{1 \times 2}{4 \times 2} = \frac{2}{8}$.
- 12) **Choice C is correct.** **(3.NF.A.4)** $\frac{1}{3} = \frac{2}{6}$. Both represent the same position on a number line.
- 13) **The correct answer is 63.** **(3.RA.B.6)** The commutative property gives $9 \times 7 = 63$.
- 14) **Choice B is correct.** **(3.NF.A.7)** Visual reasoning: same numerator (2), so both take 2 pieces. But $\frac{2}{3}$ divides the whole into 3 parts (each third is large), while $\frac{2}{6}$ divides into 6 parts (each sixth is small). Comparing shaded amounts: 2 large pieces $>$ 2 small pieces, so $\frac{2}{3} > \frac{2}{6}$.
- 15) **Choices B and C are correct.** **(3.RA.A.5)** Choice B is true because $48 \div 6 = 8$. Choice C is true because $7 \times 7 = 49$. Choice A is false ($6 \times 8 = 48$, not 42). Choice D is false ($54 \div 9 = 6$, not 5). Choice E is false ($4 \times 9 = 36$, not 35).
- 16) **Choice B is correct.** **(3.GM.C.9)** Count the rows: 9 rows. Count across: 6 unit squares per row. Total: $6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 = 54$ unit squares cover the playground.
- 17) **Choice A is correct.** **(3.GM.A.3)** One shaded column out of three equal columns is $\frac{1}{3}$ of the rectangle.
- 18) **Choice A is correct.** **(3.NF.A.3)** $\frac{1}{6}$ means one part out of six equal parts, which is at the first tick mark from 0.
- 19) **Choice A is correct.** **(3.GM.C.11)** $9 \times (2 + 2) = 9 \times 4 = 36$, and we can show this as two 9×2 rectangles side by side.
- 20) **Choice A is correct.** **(3.RA.A.4)** Divide: $24 \div 3 = 8$ pencils per friend.
- 21) **Choice A is correct.** **(3.GM.C.9)** A unit square has sides 1 unit long. Multiple unit squares are arranged with no gaps or overlaps to measure the area of shapes, following CCSS 3.MD.C.5.b.
- 22) **Choice B is correct.** **(3.GM.C.12)** Area = length \times width = $7 \times 3 = 21$ square yards.
- 23) **Choice A is correct.** **(3.RA.C.7)** Choice A: $2 \times 6 = 12$ ✓. Choice B: $3 \times 5 = 15$. Choice C: $4 \times 4 = 16$. Choice D: $2 \times 5 = 10$.
- 24) **Choice A is correct.** **(3.GM.C.9)** Shape 1: $2 \times 10 = 20$ square units. Shape 2: $4 \times 5 = 20$ square units. They have equal areas.
- 25) **The correct answer is 6.** **(3.RA.C.7)** $54 \div 9 = 6$ because $6 \times 9 = 54$.
- 26) **Choice B is correct.** **(3.NF.A.1)** Splitting from 0 to 1 into three equal parts gives $\frac{1}{3}$ for each.
- 27) **Choice B is correct.** **(3.GM.A.3)** Top: $6 \times 2 = 12$ sq units. Bottom: $5 \times 3 = 15$ sq units. Total: $12 + 15 = 27$ sq units.
- 28) **Choice B is correct.** **(3.GM.C.9)** Count the bottom row: 4 squares. Count the left column above: 3 more squares. Total: $4 + 3 = 7$ unit squares.
- 29) **Choice A is correct.** **(3.NBT.A.3)** Ones: $4 + 2 = 6$. Tens: $2 + 1 = 3$. Hundreds: $5 + 3 = 8$. Answer: 836.



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Hi, Math Champion!

◇ You trained hard! 8 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!

★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



EACH PRACTICE TEST INCLUDES:



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Question
Types



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