

8

Ohio OST

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



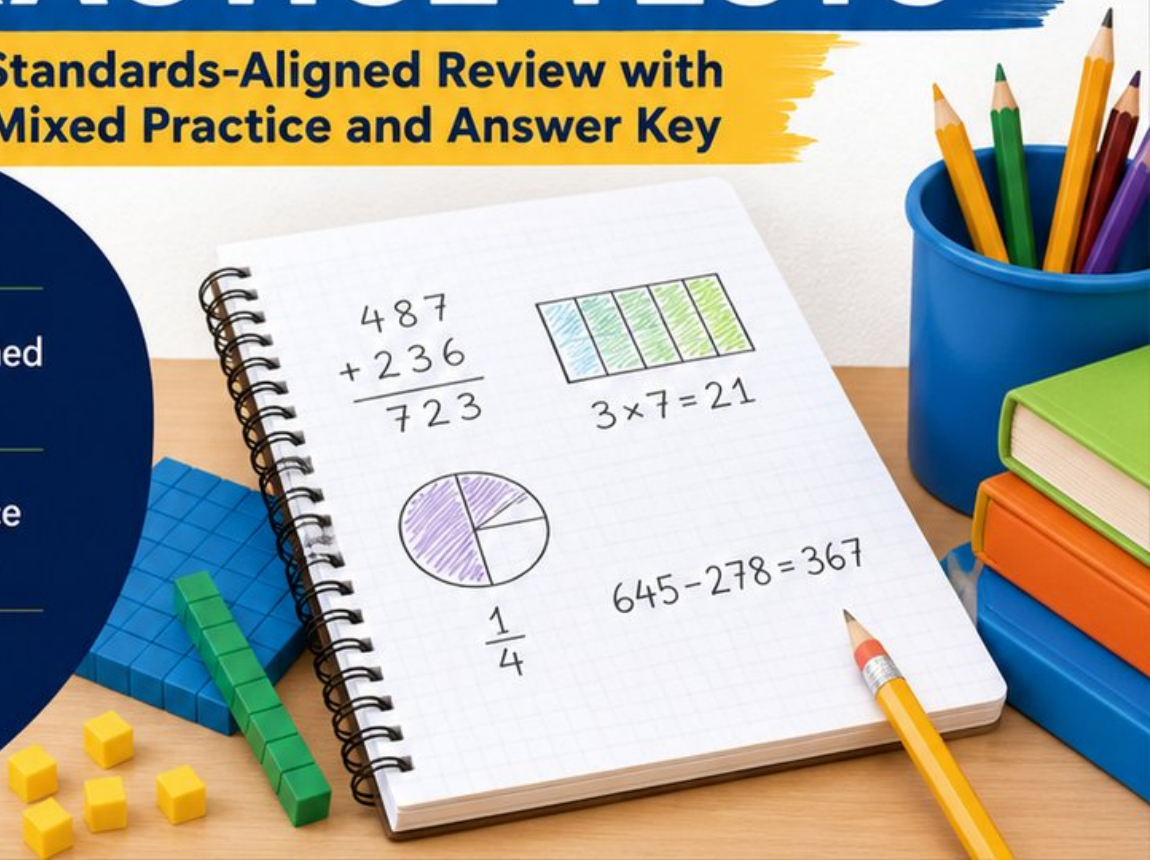
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 Ohio OST 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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Ohio, 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 Ohio OST. 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.

Ohio has river towns, lake shores, space history, farm counties, and careful classroom routines, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and check facts, units, and reasonableness.

Your Ohio 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 Ohio 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 Ohio, 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 OST

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

Ohio focus: The practice path starts with river towns, lake shores, space history, farm counties, and careful classroom routines. Strong math uses the same idea: know the path, follow the clues, and check the final answer.

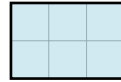


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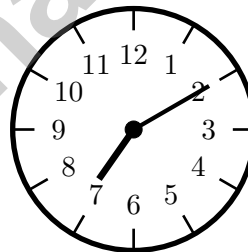
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- 1) This shape is made of unit squares on a grid.



How many unit squares cover this rectangle?

- A. 6 sq units C. 8 sq units
 B. 5 sq units D. 10 sq units
- 2) A runner drove 268 miles on Monday and 305 miles on Tuesday. She estimates the total distance by rounding each number to the nearest hundred. What is her estimate?
- A. 500 miles C. 700 miles
 B. 800 miles D. 600 miles
- 3) Mia draws a clock with the hour hand on 7 and the minute hand on 2. What time does Mia's clock show?



- A. 7 : 10 C. 2 : 35
 B. 7 : 12 D. 2 : 07



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4) A rectangular field is 9 meters long and 5 meters wide. How many square meters is the field?

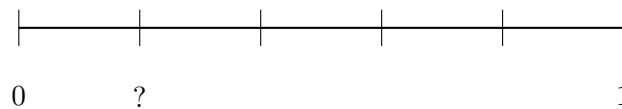
A. 14 square meters

C. 40 square meters

B. 45 square meters

D. 28 square meters

5) A number line from 0 to 1 is divided into 5 equal parts. Which shows the unit fraction?



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

C. $\frac{1}{6}$

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

D. $\frac{2}{5}$

6) Eli makes baskets with 10 apples in each basket. If Eli makes 8 baskets, how many apples are needed?

A. 18 (added instead of multiplied)

C. 810 (digit concatenation)

B. 80

D. 800 (added two zeros)

7) Eli has $\frac{8}{2}$ sheets of stickers. Each sheet is one whole. How many whole sheets does he have?

A. 2

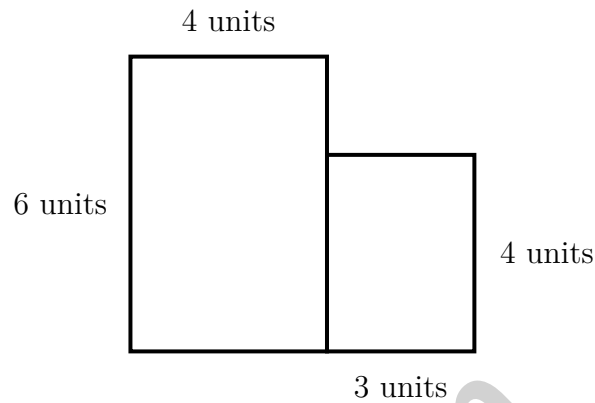
C. 8

B. 4

D. 6



- 8) An L-shaped playground is divided by dashed lines. The left rectangle is 4 units by 6 units. The right rectangle is 3 units by 4 units. What is the total area?



- A. 36 sq units
- B. 24 sq units
- C. 12 sq units
- D. 72 sq units
- 9) Draw a quadrilateral that is not a rectangle, square, or rhombus.



- 10) A pizza is cut into 9 equal slices. If 3 friends share the pizza equally, how many slices does each friend get?
- A. 3
- B. 6
- C. 12
- D. 27



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- 1) A line plot records student pencil lengths: 6, $6\frac{1}{4}$, $6\frac{1}{2}$, $6\frac{3}{4}$, 7 inches. There are 1 X at 6, 2 X's at $6\frac{1}{4}$, 3 X's at $6\frac{1}{2}$, 1 X at $6\frac{3}{4}$, and 1 X at 7. How many pencils are shorter than $6\frac{3}{4}$ inches?
- A. 3 C. 7
 B. 6 D. 8
- 2) A square has an area of 25 square inches. How long is each side?
- A. 5 inches C. 6 inches
 B. 4 inches D. 12 inches
- 3) Mia makes 28 cookies and puts 4 cookies on each plate. How many plates does she use?
- A. 7 C. 32
 B. 8 D. 24
- 4) What does the denominator in a unit fraction tell you?
- A. How many parts are shaded C. The name of the color
 B. How many equal parts the whole is divided into D. How big one part is
- 5) There are 5 rows of chairs and 6 chairs in each row. How many chairs are there in total?
- A. 25 chairs C. 35 chairs
 B. 40 chairs D. 30 chairs



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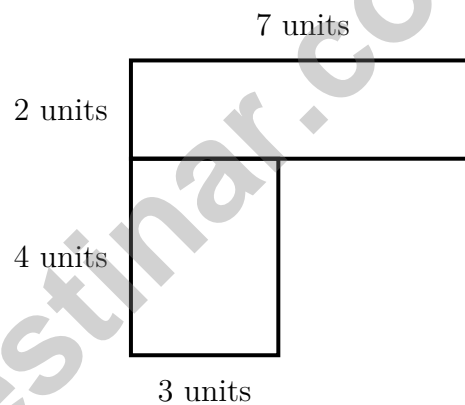
6) Noah counts unit squares to measure the area of a shape. He gets 9 unit squares. What is the area of the shape?

- A. 3 square units C. 9 square units
 B. 6 square units D. 18 square units

7) A rectangle has area $6 \times (3 + 2)$. Which calculation uses the distributive property correctly?

- A. $6 \times 5 = 30$ C. $6 + 3 + 2 = 11$
 B. $(6 \times 3) + (6 \times 2) = 18 + 12 = 30$ D. $(3 \times 2) + (6) = 12$

8) An L-shaped kitchen floor plan shows two rectangular sections. Upper: 7 units by 2 units. Lower left: 3 units by 4 units. What is the total floor area?



- A. 26 sq units C. 12 sq units
 B. 14 sq units D. 56 sq units



- 1) A rectangular piece of tile is 9 feet long and 2 feet wide. What is its area?
- A. 11 square feet C. 27 square feet
 B. 18 square feet D. 13 square feet
- 2) Ava cut a pie into 3 equal pieces and ate 2 pieces. Lily cut her pie into 6 equal pieces and ate 4 pieces. Did they eat the same amount?
- A. Yes, they ate the same amount C. No, Lily ate more
 B. No, Ava ate more D. Cannot be determined
- 3) Eli can group factors two ways. Which gives the same answer?
- A. $(3 \times 4) \times 2$ and $3 \times (4 \times 2)$ C. $(3 \times 4) \times 2$ and $(3 + 4) \times 2$
 B. $(3 \times 4) \times 2$ and $3 + (4 \times 2)$ D. $(3 \times 4) \times 2$ and $3 \times 4 - 2$
- 4) A juice box holds 200 mL. If a student drinks 3 juice boxes, how many milliliters does he drink?
- A. 200 mL C. 600 mL
 B. 400 mL D. 800 mL
- 5) What fraction is the third tick on a number line split into 4 equal 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.MD.6)** The grid shows 3 columns and 2 rows. $3 \times 2 = 6$ unit squares.
- 2) **Choice D is correct.** **(3.NBT.2)** Round 268 to the nearest hundred: 300 (since $268 > 250$). Round 305 to the nearest hundred: 300. Estimate: $300 + 300 = 600$ miles. (Exact answer: 573 miles.)
- 3) **Choice A is correct.** **(3.MD.1a)** The minute hand on 2 means 10 minutes. The hour hand on 7 means 7 o'clock. So the time is 7 : 10.
- 4) **Choice B is correct.** **(3.MD.5)** Multiply length by width: $9 \times 5 = 45$ square meters.
- 5) **Choice A is correct.** **(3.NF.2a)** Five equal parts means each part is $\frac{1}{5}$.
- 6) **Choice B is correct.** **(3.NBT.3)** 8 baskets with 10 apples each = $8 \times 10 = 80$ apples. You multiply $8 \times 1 = 8$, then multiply by 10 to get 80.
- 7) **Choice B is correct.** **(3.NF.3c)** $\frac{8}{2}$ means 8 halves. 2 halves make 1 whole, so $8 \div 2 = 4$ wholes.
- 8) **Choice A is correct.** **(3.MD.7d)** Left: $4 \times 6 = 24$ sq units. Right: $3 \times 4 = 12$ sq units. Total: $24 + 12 = 36$ sq units.
- 9) **The correct answer is trapezoid.** **(3.G.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.
- 10) **Choice A is correct.** **(3.OA.3)** Divide: $9 \div 3 = 3$ slices per friend.
- 11) **Choice D is correct.** **(3.OA.5)** The associative property changes the grouping but keeps the factors in the same order. So $4 \times (3 \times 2)$ can be regrouped as $(4 \times 3) \times 2$.
- 12) **Choice B is correct.** **(3.NF.2)** Counting from left, the mark is at the 2nd tick out of 6 equal parts, so it is $\frac{2}{6}$.
- 13) **Choice B is correct.** **(3.MD.5a)** If area is 1 square meter and the shape is a unit square, the side length must be 1 meter.
- 14) **Choices A and E are correct.** **(3.MD.4)** Statement A is correct because $3\frac{1}{2}$ has 3 X's, the most of any value. Statement B is wrong because the total is $2 + 1 + 3 + 2 + 1 = 9$. Statement C is wrong because $3\frac{1}{2}$ is the most common, not the least common. Statement D is wrong because there are 2 measurements at 3 inches and 1 at 4 inches. Statement E is correct because the range is $4 - 3 = 1$ inch.
- 15) **Choice B is correct.** **(3.G.2)** Two horizontal and two vertical lines create 6 equal parts, not 4.
- 16) **The correct answer is 12.** **(3.OA.8)** $4 \times 5 = 20$, and $20 - 8 = 12$.
- 17) **Choice B is correct.** **(3.NF.3b)** The denominator was multiplied by 2 (from 2 to 4). Multiply the numerator by 2: $1 \times 2 = 2$. So $\frac{1}{2} = \frac{2}{4}$.
- 18) **Choice B is correct.** **(3.MD.7)** Area = $2 \times 3 = 6$ square cm.
- 19) **Choice D is correct.** **(3.NF.2b)** $\frac{1}{4}$ is the 1st tick; $\frac{3}{4}$ is the 3rd tick. The distance is $3 - 1 = 2$ ticks apart.
- 20) **Choice C is correct.** **(3.MD.2)** Subtract: $1000 - 750 = 250$ mL needed.
- 21) **Choice A is correct.** **(3.MD.7c)** Since $4 + 5 = 9$ and both parts share width 10, we use the distributive property.
- 22) **Choice A is correct.** **(3.MD.3)** Soccer: $3 \times 5 = 15$. Basketball: $4 \times 5 = 20$. Tag: $2 \times 5 = 10$. Total: $15 + 20 + 10 = 45$.
- 23) **Choice C is correct.** **(3.MD.5b)** $4 \times 4 = 16$ unit squares, area is 16 square units.
- 24) **Choice A is correct.** **(3.NBT.1)** The ones digit is 4. Since $4 < 5$, round down: 804 rounds to 800.
- 25) **Choice A is correct.** **(3.NF.3d)** Three thirds is one whole. Three eighths is less than one whole. So $\frac{3}{3} > \frac{3}{8}$.
- 26) **Choice B is correct.** **(3.OA.6)** If $\square \div 5 = 8$, then to find the missing dividend, we use the inverse: $8 \times 5 = \square$. Since $8 \times 5 = 40$, the answer is 40. Options A and C are off-by-one products. Option D adds instead of multiplies.
- 27) **The correct answer is 4.** **(3.OA.4)** In a fact family, if $4 \times 8 = 32$, then $32 \div 8 = 4$. Multiplication and division are inverse operations.
- 28) **Choice C is correct.** **(3.NF.1)** Dividing a whole into 4 equal sections creates unit fractions called fourths. One section is one-fourth.
- 29) **Choice D is correct.** **(3.OA.7)** $56 \div 7 = 8$ cookies in each box. Verify: $8 \times 7 = 56$. Distractors: C is $56 - 7$; D is 7×9 .
- 30) **Choice A is correct.** **(3.OA.9)** Row A shows 3, 6, 9, 12, which are multiples of 3. Row B shows multiples of 5.



Star Player Pep Talk

Hi, Star Player!

◇ 8 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

★ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 8 tests. It's real now! ★

Star Player Stats

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

Star tip: on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

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

Jay Daie

Your Math Coach

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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:



Standards-
Aligned
Questions



Variety of
Question
Types



Real-World
Math
Applications



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Progress
Tracking



Build Skills
and Boost
Confidence

COVERS ALL ESSENTIAL TOPICS

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
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