

8

Oregon OSAS

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



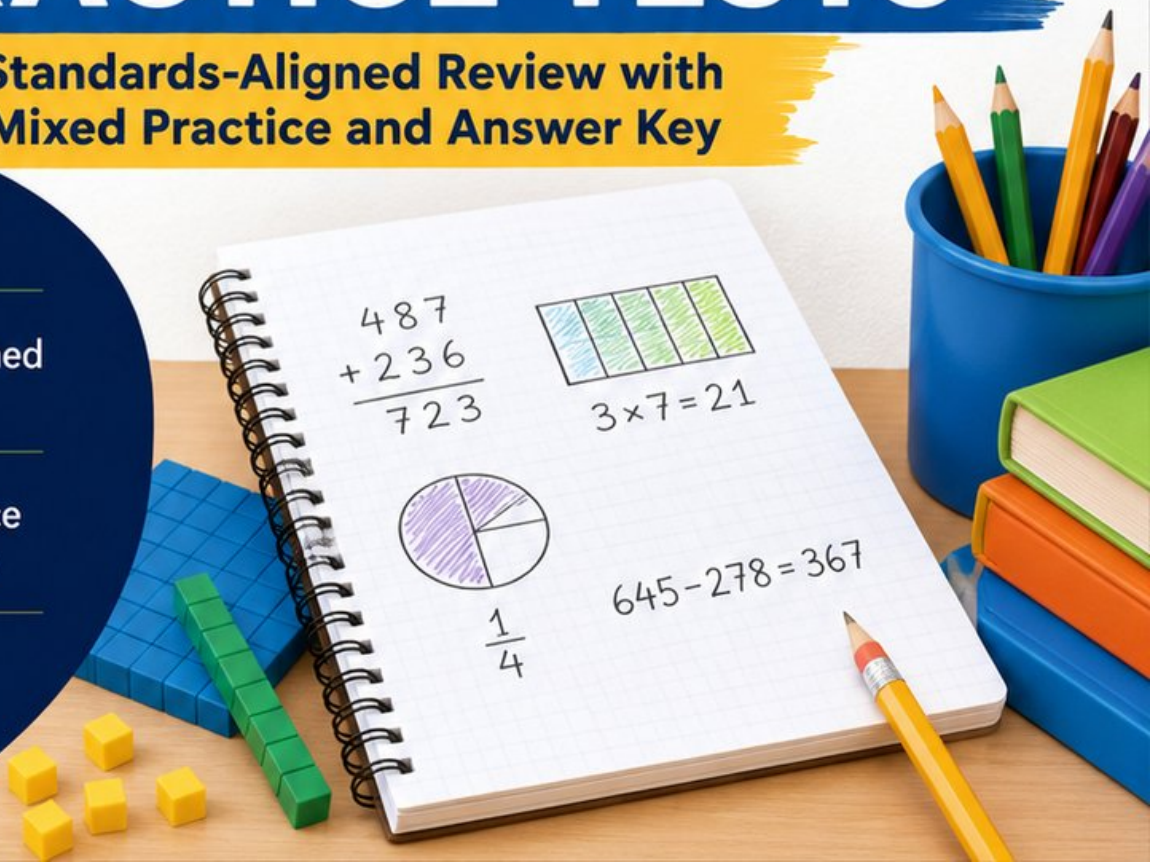
Standards-Aligned
Questions



Build Confidence
and Math Skills

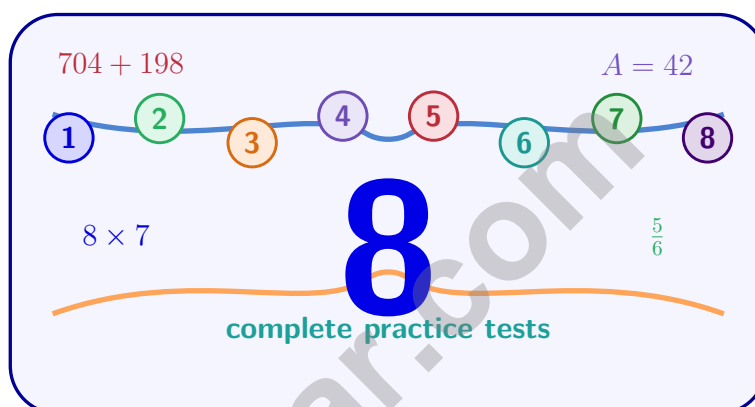


Answer Key
Included



8 Oregon OSAS 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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Oregon, 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 Oregon OSAS. 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.

Oregon has forest trails, Pacific waves, high desert, river bridges, and creative classroom work, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and use a balanced plan from start to finish.

Your Oregon 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 Oregon 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 Oregon, 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 OSAS

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

Oregon focus: The practice path starts with forest trails, Pacific waves, high desert, river bridges, and creative classroom work. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



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For more practice
& answers

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1) Which property of multiplication helps you solve 8×3 by thinking about $8 \times 2 + 8 \times 1$?

- A. Commutative C. Identity
 B. Associative D. Distributive

2) Sam plants 7 rows of tomato seeds with 8 seeds in each row. Some seeds do not grow and only 50 seeds sprout. How many seeds did not sprout?

- A. 6 C. 15
 B. 8 D. 56

3) Round 734 to the nearest 10.

- A. 730 C. 740
 B. 734 D. 800



4)

The bars show two fractions. Are they equal?

- A. Yes, they are equal C. No, $\frac{3}{3}$ is larger
 B. No, $\frac{2}{2}$ is larger D. Cannot tell

5) How many whole units does the shaded bar show?

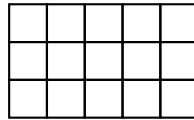


- A. 1 C. 6
 B. 3 D. 2



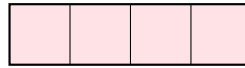
- 6) A line plot shows test scores: 70 appears 1 time, $70\frac{1}{2}$ appears 3 times, and 71 appears 2 times. What is the most common test score?

- 7) 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



- 8)

M

N

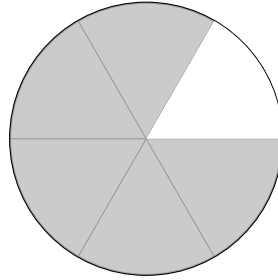
Shape M is a 2-by-2 square. Shape N is a 4-by-1 rectangle. How many more unit squares does one have?

- A. Shape M has 0 more (they are equal) C. Shape N has 1 more
 B. Shape M has 1 more D. They cannot be compared



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9) A cake is divided into 6 equal pieces. Ava takes one piece. Which fraction is left?



- A. $\frac{1}{6}$
 B. $\frac{2}{6}$

- C. $\frac{5}{6}$
 D. $\frac{6}{6}$

10) What is the fewest right angles a trapezoid can have?



11) A rectangle is broken into $3 \times (4 + 5)$. Which is NOT a correct next step?

- A. $3 \times 9 = 27$ C. $3 + 4 + 5 = 12$
 B. $(3 \times 4) + (3 \times 5) = 12 + 15 = 27$ D. $(3 \times 4) + (3 \times 5)$

12) A bar graph shows hours practiced. Piano: 6 units (scale: 2 hours per unit). Guitar: 4 units (scale: 2 hours per unit). How many more hours was piano practiced?

- A. 2 C. 8
 B. 4 D. 12



1) Which grouping makes a factor of 10 first when finding $(2 \times 5) \times 3$?

- A. $(2 \times 5) \times 3$ because $2 \times 5 = 10$ C. $(2 + 5) \times 3$ because $2 + 5 = 7$
 B. $2 \times (5 \times 3)$ because $5 \times 3 = 15$ D. Neither grouping works

2) Below is a grouped representation showing 3 groups of items with 5 items in each group drawn as stars.



How many stars are there in total?

- A. 8 C. 10
 B. 12 D. 15
- 3) Two identical strips of paper are folded. Strip A is folded into 4 equal parts with 2 colored. Strip B is folded into 2 equal parts with 1 colored. Are the colored regions the same size?

- A. The strips are different lengths. C. No, Strip B is larger.
 B. Yes, same size. D. No, Strip A is larger.

4) Which comparison is true?

- A. $\frac{3}{5} > \frac{3}{4}$ C. $\frac{3}{4} < \frac{3}{5}$
 B. $\frac{3}{5} < \frac{3}{4}$ D. $\frac{3}{5} = \frac{3}{4}$

5) Noah has a backpack weighing 3 kilograms and a book weighing 500 grams. What is the total mass in grams?

- A. 503 g C. 3000 g
 B. 3500 g D. 500 g



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1) Sam divides a number line from 0 to 2 into fourths. He marks the 6th tick. What fraction and mixed number does this represent?

A. $\frac{6}{4}$, or $1\frac{1}{2}$

B. $\frac{3}{4}$ only

C. $\frac{3}{4}$, or $\frac{6}{8}$

D. $\frac{3}{4}$, or $1\frac{1}{2}$

2) A picture graph shows stickers. Each heart represents 2 stickers. Mia had 8 hearts, then gave away 3 hearts. How many stickers does Mia have now?

A. 5 stickers

B. 10 stickers

C. 16 stickers

D. 11 stickers

3) A rectangle has a width of 3 feet and a length of 8 feet. The rectangle has 8 rows with 3 unit squares in each row. Find the area by adding: $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = ?$

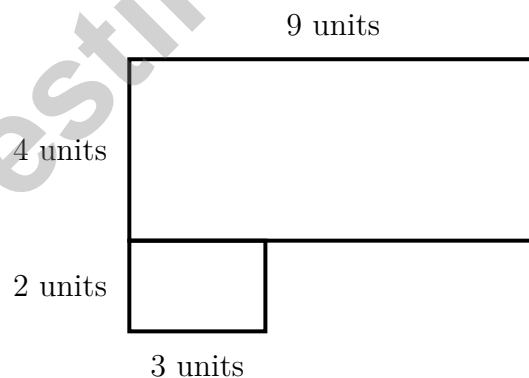
A. 11 sq ft

B. 16 sq ft

C. 24 sq ft

D. 32 sq ft

4) Eli has an L-shaped rug. The longer side is 9 units by 4 units. The shorter side is 3 units by 2 units. What is the total area of the rug?



A. 36 sq units

B. 6 sq units

C. 42 sq units

D. 216 sq units



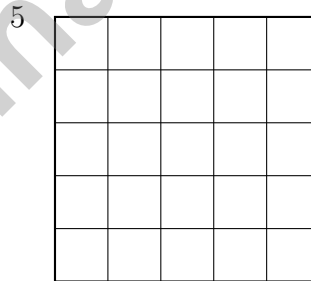
5) Lily made 5 flower pots. She put 6 flowers in each pot. What is the total number of flowers?

- A. 11 flowers (adds $5 + 6$)
- B. 35 flowers (multiplies by wrong amount)
- C. 25 flowers (confuses: 5×5 instead of 5×6)
- D. 30 flowers

6) Round 614 to the nearest 100. What is the answer?

7) What is 2×7 ? Using the repeated addition strategy, which shows this product?

- A. $7 + 7 + 7$
- B. 7×7
- C. $2 + 7$
- D. $7 + 7$



8)

5

This square is tiled with unit squares. How many are there?

- A. 10
- B. 20
- C. 25
- D. 55



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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.B.5)** The distributive property lets you break apart a factor: $8 \times 3 = 8 \times (2 + 1) = 8 \times 2 + 8 \times 1 = 16 + 8 = 24$.
- 2) **Choice A is correct.** **(3.OA.D.8)** Step 1: Find total seeds: $7 \times 8 = 56$ seeds. Step 2: Subtract sprouted seeds: $56 - 50 = 6$ seeds did not sprout. (Choice D is step 1 only; choice C is incorrect subtraction.)
- 3) **Choice A is correct.** **(3.NBT.A.1)** The ones digit is 4. Since $4 < 5$, round down: 734 rounds to 730.
- 4) **Choice A is correct.** **(3.NF.A.3)** Both fractions equal one whole. Two halves and three thirds both fill the entire bar.
- 5) **Choice D is correct.** **(3.GM.A.2)** 6 thirds means $6 \div 3 = 2$ wholes. The bar shows two whole units.
- 6) **The correct answer is $70\frac{1}{2}$.** **(3.DR.B.2)** The value with the most X marks is $70\frac{1}{2}$, with 3 X's.
- 7) **Choice C is correct.** **(3.GM.C.5)** Counting rows and columns: 5 units wide and 3 units tall gives $5 \times 3 = 15$ unit squares.
- 8) **Choice A is correct.** **(3.GM.C.6)** Shape M is $2 \times 2 = 4$ unit squares. Shape N is $4 \times 1 = 4$ unit squares. Both are equal.
- 9) **Choice C is correct.** **(3.GM.A.2)** If one piece is taken from 6 equal pieces, 5 pieces remain, which is $\frac{5}{6}$.
- 10) **The correct answer is 0 right angles.** **(3.GM.A.1)** A trapezoid can have no right angles.
- 11) **Choice C is correct.** **(3.GM.A.2)** Adding the numbers instead of multiplying does not use the distributive property or find the area correctly.
- 12) **Choice B is correct.** **(3.DR.B.2)** Piano: $6 \times 2 = 12$. Guitar: $4 \times 2 = 8$. More: $12 - 8 = 4$.
- 13) **Choices A and B are correct.** **(3.GM.B.3)** A: $9 : 20$ to $9 : 50 = 30$ min. B: $1 : 15$ to $2 : 30 = 1$ hr 15 min. C: $6 : 00$ to $7 : 00 = 60$ min (true, but not selected). D: $11 : 45$ to $12 : 30 = 45$ min (true, but not selected). E: $4 : 00$ to $5 : 05 = 1$ hr 5 min (true, but not selected). Correct answers require careful minute counting across hour boundary.
- 14) **The correct answer is 48.** **(3.OA.A.4)** Multiply: $6 \times 8 = 48$ coins total.
- 15) **Choice B is correct.** **(3.GM.C.7)** The square has side length 4. Area = $4 \times 4 = 16$ square units.
- 16) **Choice D is correct.** **(3.OA.D.9)** Skip counting by 4 means adding 4 each time: $4 + 4 = 8$, $8 + 4 = 12$, etc.
- 17) **Choice C is correct.** **(3.GM.C.6)** Area = $5 \times 4 = 20$ square feet.
- 18) **Choice D is correct.** **(3.NBT.A.2)** Add: $176 + 245 = 421$. Ones: $6 + 5 = 11$ (write 1, carry 1). Tens: $7 + 4 + 1 = 12$ (write 2, carry 1). Hundreds: $1 + 2 + 1 = 4$.
- 19) **Choice C is correct.** **(3.GM.C.5)** Add the areas: $25 + 14 = 39$ square units.
- 20) **Choice C is correct.** **(3.NF.A.3)** Circle 1 shows $\frac{1}{2}$ (half shaded) and Circle 3 shows $\frac{2}{4}$ (half shaded). These are equivalent because $\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$.
- 21) **Choice D is correct.** **(3.OA.A.3)** Multiply: 3 tables \times 9 children per table = 27 children.
- 22) **Choice C is correct.** **(3.NF.A.3)** $\frac{2}{3}$ and $\frac{4}{6}$ show the same shaded amount.
- 23) **Choice D is correct.** **(3.OA.C.7)** $45 \div 5 = 9$ because $9 \times 5 = 45$. Count by fives: 5, 10, 15, 20, 25, 30, 35, 40, 45.
- 24) **Choice B is correct.** **(3.OA.B.6)** $28 \div 4 = \square$ means $\square \times 4 = 28$. Since $7 \times 4 = 28$, the answer is 7. Option A ($6 \times 4 = 24$) is off-by-one. Option D confuses the divisor with the quotient.
- 25) **Choice C is correct.** **(3.GM.B.4)** 5 L = 5000 mL. Divide: $5000 \div 200 = 25$ glasses. Tests estimation.
- 26) **Choice C is correct.** **(3.NF.A.2)** On the number line, $\frac{4}{6}$ is to the right of $\frac{3}{6}$ (which equals $\frac{1}{2}$), so $\frac{4}{6} > \frac{1}{2}$.
- 27) **Choice C is correct.** **(3.NF.A.2)** $\frac{2}{3} = \frac{4}{6}$ because they both represent two-thirds of the distance from 0 to 1.
- 28) **Choice C is correct.** **(3.GM.C.5)** Area is the space inside (square units). Perimeter is the distance around the edge (linear units). They measure different attributes.
- 29) **Choice D is correct.** **(3.OA.A.2)** 8 packs with 6 cards each means 8 groups of 6. So $8 \times 6 = 48$ cards.
- 30) **Choice A is correct.** **(3.NBT.A.3)** $5 \times 30 = 150$ because $5 \times 3 = 15$, then add a zero. $6 \times 20 = 120$ because $6 \times 2 = 12$, then add a zero. Since $150 > 120$, 5×30 is greater.



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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:



Standards-
Aligned
Questions



Variety of
Question
Types



Real-World
Math
Applications



Step-by-Step
Progress
Tracking



Build Skills
and Boost
Confidence

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis
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