

6

Oregon OSAS

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 Oregon OSAS 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 Oregon OSAS. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Oregon brings forest trails, Pacific waves, high desert, and river bridges. Strong math uses that same care: read the task, select a strategy, build the solution, and use a balanced plan from start to finish.

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 Oregon students, each lab is a short route through forest trails, Pacific waves, high desert, and river bridges: 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 Oregon 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 Oregon OSAS path.



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& answers

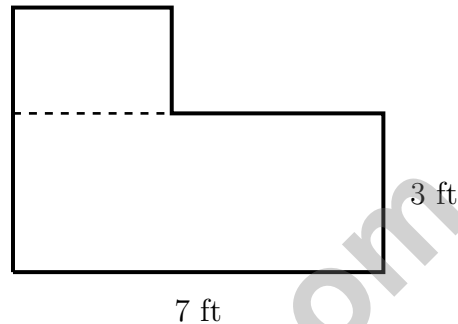
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5) Lily starts a project at 7 : 29 AM. She works for 1 hour and 16 minutes. What time does she finish?

- A. 8 : 35 AM C. 8 : 45 AM
 B. 8 : 40 AM D. 9 : 00 AM

6) An L-shaped patio is shown with dashed decomposition lines:



Bottom: 7 ft by 3 ft. Top: 3 ft by 2 ft. What is the total area?

- A. 6 sq ft C. 21 sq ft
 B. 27 sq ft D. 42 sq ft

7) Find $30 \div 5$.

8) Look at products of 4: 4, 8, 12, 16, 20.

Why are all these numbers even?

- A. Because 4 is even, and every multiple of an even number is even C. Because 4 is odd
 B. Because they go up by 4 each time D. Because all products are less than 25



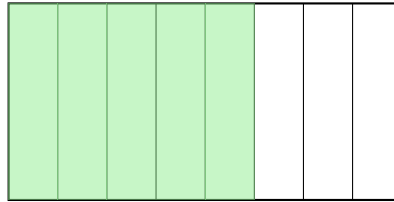
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9) Lily colors $\frac{4}{6}$ of a poster red. Which fraction shows the SAME amount?

- A. $\frac{4}{8}$
 B. $\frac{3}{4}$

- C. $\frac{2}{3}$
 D. $\frac{1}{6}$

10) A rectangle is divided into equal parts. Five parts are shaded out of 8 equal parts. What fraction is shaded?



- A. $\frac{3}{8}$
 B. $\frac{5}{8}$

- C. $\frac{5}{3}$
 D. $\frac{1}{8}$

11) Look at the rectangle. It is divided into equal parts, and one part is shaded.



What fraction is shaded?

- A. $\frac{1}{4}$
 B. $\frac{1}{3}$

- C. $\frac{2}{4}$
 D. $\frac{1}{5}$

12) How many sides does a square have?



1) A pet store has 9 cages. Each cage has 5 rabbits. Which equation can be used to find the total number of rabbits?

A. $9 + 5 = 14$

B. $9 \times 5 = 45$

C. $5 + 5 = 10$

D. $9 - 5 = 4$

2) Sam arranges his toy soldiers in an array with 8 rows and 4 columns. How many soldiers does he have?

A. 24

B. 12

C. 36

D. 32

3) What is 7×6 ?

4) A long rectangle has area 60 square units. It is split vertically into two parts. One part is 4×10 . What is the area of the other part if they share the same length?

A. 40

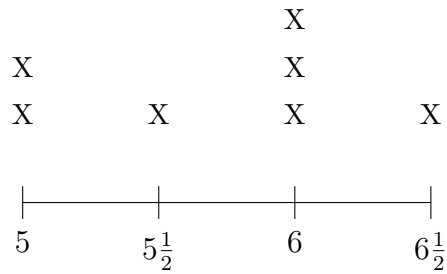
B. 20

C. 30

D. 60

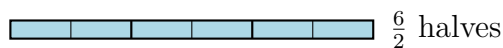


5) Ava measured the heights of plant stems in inches using halves: 5, $5\frac{1}{2}$, 6, $6\frac{1}{2}$.



How many plant stems are 6 inches or taller?

- A. 2
 - B. 3
 - C. 4
 - D. 5
- 6) 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
- 7) 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
- 8) The picture shows $\frac{6}{2}$. How many wholes?



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



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- 1) Look at the rectangle with 3 equal parts. One part is shaded blue.



What fraction is shaded?

- A. $\frac{1}{2}$ C. $\frac{2}{3}$
 B. $\frac{1}{3}$ D. $\frac{3}{1}$
- 2) Sam draws a number line from 0 to 2 split into 8 equal parts. He marks $\frac{4}{8}$ of the distance from 0 to 2. At what whole number is his mark?
- A. At 0 C. At 2
 B. Between 1 and 2 D. At 1
- 3) A store has 456 pencils. It sells 132 pencils. How many pencils are left?
- A. 314 C. 334
 B. 424 D. 324
- 4) A number line from 0 to 1 is divided so that the unit fraction at the first tick is $\frac{1}{3}$. How long is the second tick from 0?
- A. $\frac{1}{3}$ C. $\frac{1}{6}$
 B. $\frac{2}{3}$ D. $\frac{3}{2}$



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

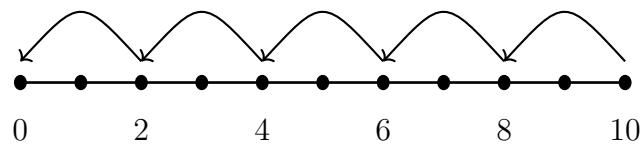
A. 37

C. 210

B. 73

D. 2100

6) Which number sentence is shown by the repeated subtraction on the number line?



A. $10 \div 2 = 5$

C. $10 - 2 = 8$

B. $10 \div 5 = 2$

D. $2 \times 5 = 10$



7)

4 cm

What is the perimeter of this rectangle?

A. 6 cm

C. 12 cm

B. 8 cm

D. 16 cm



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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 C is correct.** **(3.NBT.A.1)** The point is closer to 50 than to 40. Numbers from 45 to 49 round to 50.
- 2) **Choice B is correct.** **(3.NF.A.3)** Same numerator: sixths are bigger pieces than eighths. Two sixths is greater than two eighths.
- 3) **Choice A is correct.** **(3.NBT.A.2)** For $405 - 189$, the standard algorithm with regrouping (forming 3 hundreds 9 tens from 4 hundreds 0 tens) is most direct. Count-up (C) requires many jumps; estimation (D) loses precision; place-value (B) requires tracking three separate subtractions. The algorithm minimizes errors for this problem.
- 4) **Choice A is correct.** **(3.NBT.A.3)** Since $7 \times 50 = 350$, the missing factor is 7. We can work backwards: $350 \div 50 = 7$.
- 5) **Choice C is correct.** **(3.GM.B.3)** $7 : 29 + 1 \text{ hour} = 8 : 29$. Then $8 : 29 + 16 \text{ min} = 8 : 45 \text{ AM}$.
- 6) **Choice B is correct.** **(3.GM.C.5)** Bottom: $7 \times 3 = 21 \text{ sq ft}$. Top: $3 \times 2 = 6 \text{ sq ft}$. Total: $21 + 6 = 27 \text{ sq ft}$.
- 7) **The correct answer is 6.** **(3.OA.A.3)** $30 \div 5 = 6$.
- 8) **Choice A is correct.** **(3.OA.D.9)** Each product is 4 times a whole number. Since 4 is even, every multiple of 4 is even. This is true for all even numbers: $\text{even} \times (\text{any number}) = \text{even}$.
- 9) **Choice C is correct.** **(3.NF.A.2)** $\frac{4}{6} = \frac{2}{3}$ because both represent two-thirds of the poster.
- 10) **Choice B is correct.** **(3.GM.A.2)** Five shaded parts out of 8 equal parts is $\frac{5}{8}$.
- 11) **Choice A is correct.** **(3.GM.A.2)** The rectangle is divided into 4 equal parts. Even though the shading might look uneven, one complete part is shaded, which is $\frac{1}{4}$.
- 12) **The correct answer is 4 sides.** **(3.GM.A.1)** A square has 4 sides.
- 13) **Choices A and B are correct.** **(3.DR.B.2)** A is true because $3 \times 5 = 15$, and B is true because $4 \times 5 = 20$. C should be 10, not 7; D should be 30, not 35; and E should be 25, not 40.
- 14) **Choice B is correct.** **(3.GM.C.7)** Area = $3 \times 5 = 15$ square feet.
- 15) **Choice B is correct.** **(3.NF.A.2)** The right end is at all 2 parts, so the fraction is $\frac{2}{2}$, which equals 1.
- 16) **Choice B is correct.** **(3.OA.A.4)** Area = length \times width = $7 \times 3 = 21$ square yards.
- 17) **Choice C is correct.** **(3.GM.C.6)** 6 units wide \times 2 units tall = 12 unit squares.
- 18) **Choice D is correct.** **(3.OA.B.6)** If $28 \div \square = 7$, then $7 \times \square = 28$. Since $7 \times 4 = 28$, the missing number is 4.
- 19) **The correct answer is 15.** **(3.OA.B.5)** $3 \times 5 = 15$.
- 20) **Choice C is correct.** **(3.NF.A.3)** Lily ate 1 out of 2 pieces, which is $\frac{1}{2}$.
- 21) **Choice A is correct.** **(3.NF.A.2)** The distance from $\frac{5}{8}$ to $\frac{8}{8}$ is $\frac{8}{8} - \frac{5}{8} = \frac{3}{8}$, or 3 eighths.
- 22) **Choice D is correct.** **(3.GM.C.5)** Rectangle A: $2 \times 6 = 12$ square units. Rectangle B: $3 \times 4 = 12$ square units. Both have the same area.
- 23) **Choice C is correct.** **(3.OA.C.7)** $7 \times 10 = 70$, then $70 - 7 = 63$. The mental-math strategy helps break hard facts into easier ones.
- 24) **Choice D is correct.** **(3.OA.A.2)** $24 \div 6 = 4$. Divide the total students by the number of teams.
- 25) **Choice C is correct.** **(3.GM.A.2)** A fraction where numerator = denominator always equals 1. $\frac{6}{6} = 1$.
- 26) **Choice A is correct.** **(3.NF.A.3)** Divide the numerator and denominator of $\frac{2}{4}$ by 2: $\frac{2 \div 2}{4 \div 2} = \frac{1}{2}$.
- 27) **Choice B is correct.** **(3.GM.B.4)** Subtract: $2000 - 1500 = 500 \text{ mL}$.
- 28) **Choice A is correct.** **(3.OA.A.4)** We can check: $7 \times 8 = 56$. Sam is correct.
- 29) **Choice B is correct.** **(3.DR.B.2)** Shorter than $3\frac{3}{4}$ feet means values less than $3\frac{3}{4}$. Count the X's at 3, $3\frac{1}{4}$, and $3\frac{1}{2}$: $1 + 1 + 2 = 4$.
- 30) **Choice A is correct.** **(3.OA.D.8)** Step 1: Team A total: $4 + 5 = 9$ goals. Step 2: How many more than Team B: $9 - 6 = 3$ more goals. Choices A and B both work (parentheses clarify order), but A is clearer.

Practice Test 2 Answers and Explanations



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Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 6 tests is like 6 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

Gardener tip: keep watering your math garden long after the test. Every habit you built will grow with you for years!

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

Jay Daie

Your Math Gardener

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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