



# 6

# Oregon

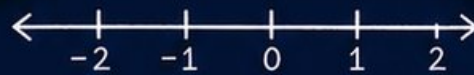
# OSAS



# GRADE 5 MATH

## PRACTICE TESTS

Complete Standards-Based Practice  
— for Grade 5 Math Success —



$5^2 = 25$



**6 FULL-LENGTH  
PRACTICE TESTS**  
Realistic style questions



**STANDARDS-BASED  
PRACTICE**  
Covers all Grade 5  
Math standards

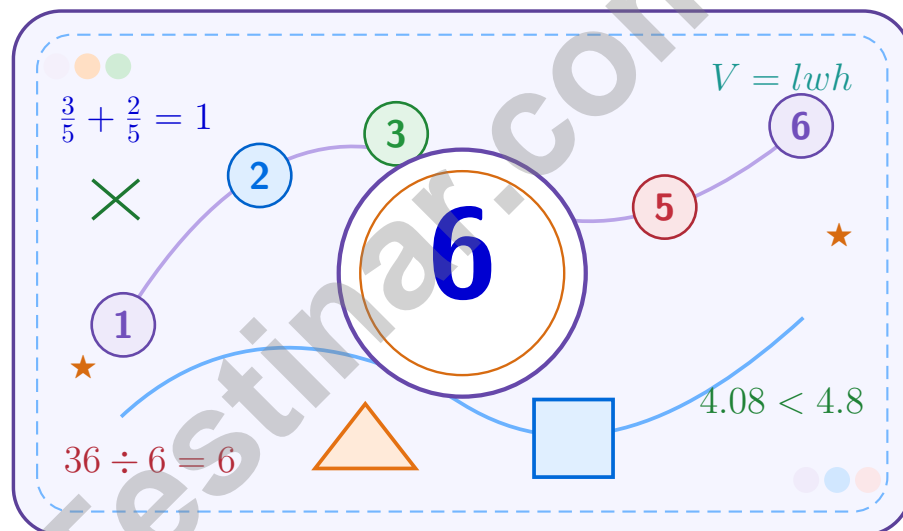


**BUILD CONFIDENCE.  
IMPROVE SCORES.**  
Target weak areas and  
achieve success

★ STRONG PRACTICE. BRIGHT FUTURE. ★

# 6 Oregon OSAS Grade 5 Math Practice Tests

*A six-step confidence climb with clear review, smart strategy, and practice that gets stronger every round*



Six full tests, a focused skill booster, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

Jay Daie and Reza Nazari



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# Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

## To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these six tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

### Try

Give each problem your best thinking.

### Check

Study mistakes and learn what happened.

### Rise

Bring that lesson into the next round.

**A strong habit for every page:** read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

# How to Use This Book

A simple practice routine that turns six tests into steady growth

## Step 1: Warm Up

**Start with the quick review.**  
Spend a few minutes refreshing the ideas before you start a test.

## Step 2: Take the Test

**Take one full practice test.**  
Work in a quiet space and let accuracy matter more than speed.

## Step 3: Study the Pattern

**Check your work honestly.**  
Circle missed questions and notice patterns in the mistakes.

## Step 4: Learn, Then Retry

**Read the explanation and try again.**  
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.

## A Six-Week Climb Map

Week	Mission Focus
<b>Week 1</b>	Take Test 1 and review any place-value or operation slips.
<b>Week 2</b>	Take Test 2 and focus on showing neat, easy-to-read work.
<b>Week 3</b>	Take Test 3 and give extra time to fractions or decimals if needed.
<b>Week 4</b>	Take Test 4 and slow down on word problems and units.
<b>Week 5</b>	Take Test 5 and compare your score and habits with earlier rounds.
<b>Week 6</b>	Take Test 6 and finish with calm, careful, confident work that uses everything you practiced before.



Scan me

# Test Overview

## What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the Oregon OSAS. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

### Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

### Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

### Grade 5 Skills You Will Practice Often

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, decimals, and mixed numbers
- perimeter, area, volume, and measurement conversions
- coordinate points, patterns, graphs, and tables
- geometry and multi-step word problems

**What strong work looks like:** the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



# Table of Contents

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Grade 5 Mathematics

1

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

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### TIME

1 minute (min) = 60 seconds (sec)    1 week = 7 days

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- 1) A student is making a line plot for these puppy weights, in pounds:

$$\frac{1}{4}, \frac{1}{2}, \frac{1}{2}, \frac{3}{4}, \frac{3}{4}, \frac{3}{4}, 1, 1$$

Which weight should have the most X's above it?

- A.  $\frac{1}{4}$  pound                       C.  $\frac{3}{4}$  pound  
 B.  $\frac{1}{2}$  pound                         D. 1 pound

- 2) What is  $13 \div \frac{1}{4}$ ?

- A. 36                                       C. 52  
 B. 48                                       D. 64

- 3) Pattern X: 0, 1, 2, 3, 4. Pattern Y: 0, 3, 6, 9, 12. What is the 4th ordered pair (X, Y)?

*Record your answer in the space provided.*

- 4) Which rule completes the pattern 500, 50, 5, 0.5, ??

- A. Multiply by 10 each time  
 B. Multiply by 100 each time  
 C. Divide by 100 each time  
 D. Divide by 10 each time

- 5) A gift box measuring 11 cm long, 7 cm wide, and 4 cm tall has what volume?

- A.  $220 \text{ cm}^3$                                C.  $288 \text{ cm}^3$   
 B.  $260 \text{ cm}^3$                                D.  $308 \text{ cm}^3$



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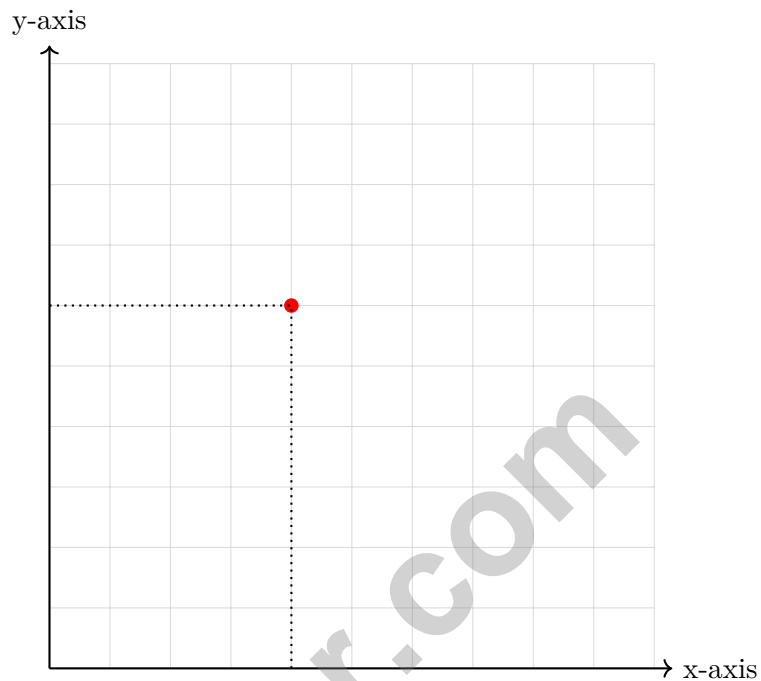
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1) What ordered pair names the red point on the coordinate grid?



- A. (6, 4)
- B. (4, 0)
- C. (4, 6)
- D. (0, 6)

2) Two water containers: one holds 3 liters, the other holds 2,500 milliliters. Which container has the greater capacity?

<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; background-color: #e6f2ff;">Container 1</div> <div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; background-color: #fff9c4; margin-top: 5px;">3 L</div>	<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; background-color: #e6f2ff;">Container 2</div> <div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; background-color: #fff9c4; margin-top: 5px;">2,500 mL</div>
--	---

- A. Container 1 (3 L)
- B. Container 2 (2,500 mL)
- C. They have equal capacity
- D. Cannot determine



## Grade 5 Mathematics Reference Materials

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1) What is  $\frac{1}{2} \div 3$ ?

- A.  $\frac{3}{2}$   
 B.  $\frac{1}{6}$

- C.  $\frac{2}{3}$   
 D.  $\frac{1}{5}$

2) Find:  $0.082 \times 10^2$ .

*Record your answer in the space provided.*

3) Use a place-value chart for 20.394 and round to nearest hundredth.

Tens	Ones	Tenths	Hundredths	Thousandths
2	0	3	9	4

What is the result?

- A. 20.39  
 B. 20.394

- C. 20.40  
 D. 20.30

4) Maria has a ribbon that is 4 feet long. She wants to cut it into 12-inch pieces. How many pieces can she make?

- A. 2 pieces  
 B. 3 pieces

- C. 4 pieces  
 D. 5 pieces



## Practice Test Answer Keys

### How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

**Good correction habits build strong scores.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (5.DR.A.1) When making the line plot, place one X for each measurement.  $\frac{3}{4}$  appears 3 times, which is more than  $\frac{1}{4}$  (1 time),  $\frac{1}{2}$  (2 times), or 1 (2 times).
- 2) **Choice C is correct.** (5.NF.B.7)  $13 \div \frac{1}{4} = 13 \times 4 = 52$ .
- 3) **The correct answer is (3, 9).** (5.GM.A.2) Match the terms in the same positions from Pattern X and Pattern Y. The first four pairs are (0, 0), (1, 3), (2, 6), and (3, 9). Accept equivalent spacing or comma formatting.
- 4) **Choice D is correct.** (5.NBT.A.2) Each term is one-tenth of the term before it:  $500 \rightarrow 50 \rightarrow 5 \rightarrow 0.5$ . The rule is divide by 10 each time.
- 5) **Choice D is correct.** (5.GM.D.7) Multiply the three dimensions:  $11 \times 7 \times 4 = 308 \text{ cm}^3$ .
- 6) **Choice C is correct.** (5.NF.A.1)  $\frac{1}{8}$  is close to 0, and  $\frac{7}{8}$  is close to 1. So  $\frac{1}{8} + \frac{7}{8} \approx 0 + 1 = 1$ .
- 7) **Choice C is correct.** (5.GM.B.3) One angle measures 112 degrees, which is greater than 90 degrees, making this an obtuse triangle.
- 8) **Choice C is correct.** (5.NF.B.7) A sixth-box kit means 6 kits per full box.  $15 \div \frac{1}{6} = 15 \times 6 = 90$  kits.
- 9) **Choice B is correct.** (5.NBT.A.2) Dividing by 10:  $52.3 \div 10 = 5.23$  kg per classroom.
- 10) **Choice A is correct.** (5.OA.B.3) The rule says to add the two previous numbers. The two numbers before the blank are 8 and 13, and  $8 + 13 = 21$ .
- 11) **Choice A is correct.** (5.GM.D.7) The base layer has  $5 \times 5 = 25$  square units. Divide the volume by the base area:  $150 \div 25 = 6$ , so the height is 6 centimeters.
- 12) **Choice D is correct.** (5.GM.A.2) Use output = input  $\times$  input. With input 5, the output is  $5 \times 5 = 25$ , so the ordered pair is (5, 25).
- 13) **Choice A is correct.** (5.GM.A.2) Start with  $P(3, 2)$ . Moving 2 units right adds 2 to the x-coordinate, and moving 3 units up adds 3 to the y-coordinate, giving  $P'(5, 5)$ .
- 14) **Choice D is correct.** (5.GM.D.5) The arrangement has 3 cubes in one direction, 5 in another, and 2 layers. Multiplying gives  $3 \times 5 \times 2 = 30$  unit cubes.
- 15) **Choice D is correct.** (5.GM.D.6) Each layer has 20 unit cubes. With 3 layers stacked, the total is  $20 \times 3 = 60$  unit cubes.
- 16) **Choice D is correct.** (5.NBT.A.3) 0.8 has one decimal place, which represents tenths. So  $0.8 = \frac{8}{10}$ .
- 17) **Choice D is correct.** (5.NBT.A.3) 0.32 is 0.02 away from 0.3. The decimal 0.47 is 0.17 away, and 0.68 is farther away.
- 18) **Choice D is correct.** (5.NBT.A.2)  $10^2 = 100$ . So  $? \times 100 = 7200 \Rightarrow ? = 72$ .
- 19) **The correct answer is  $9\frac{3}{5}$ .** (5.NF.B.5)  $\frac{4}{5} \times 12 = \frac{48}{5} = 9\frac{3}{5}$ . Since  $\frac{4}{5} < 1$ , the product is a little less than 12.
- 20) **Choice A is correct.** (5.NF.B.6) The overlap covers 2 of the 10 equal cells. Since  $\frac{2}{10} = \frac{1}{5}$ , the product is  $\frac{1}{5}$ .
- 21) **Choice C is correct.** (5.NBT.A.2)  $32 \times 10$  gives 320, which has 1 zero.  $320 \times 100$  gives 32,000, which has 3 zeros, so that is 2 more zeros.
- 22) **Choices A, B are correct.** (5.NBT.A.4) 3.17 and 3.24 both round to 3.2 to the nearest tenth. 3.25 rounds up to 3.3, and 3.09 rounds to 3.1.
- 23) **Choice A is correct.** (5.NBT.A.2)  $0.56 \times 10 = 5.6$  (decimal moves 1 place right).
- 24) **Choice B is correct.** (5.NF.A.2) Check:  $\frac{3}{4} = \frac{3 \times 2}{4 \times 2} = \frac{6}{8}$ . All other pairs have different values.
- 25) **Choice B is correct.** (5.NBT.A.2) Dividing by a power of 10 shifts the value to a smaller place.  $5,600 \div 100 = 56$  books per classroom. This confirms the answer.
- 26) **Choice B is correct.** (5.NBT.A.2)  $18 \times 10^4 = 18 \times 10000 = 180000$  artifacts.
- 27) **Choice A is correct.** (5.GM.A.1) Both J at (2, 4) and K at (7, 4) have y-coordinate 4, so they share the same y-coordinate.
- 28) **Choice C is correct.** (5.GM.C.4) First cyclist's total:  $15.5 + 8.25 = 23.75$  km. Second cyclist's total:  $9.75 + 12 = 21.75$  km. The first cyclist traveled  $23.75 - 21.75 = 2$  km farther.
- 29) **Choice B is correct.** (5.NBT.A.1) Adding the expanded parts:  $8 + 0.5 + 0.03 + 0.001 = 8.531$ .



## Hey there, Master Gamer!

★ Level mastery achieved! You've conquered six complete game worlds, defeating mathematical boss battles and collecting skill power-ups like a professional gamer! Each test level presented unique challenges and hidden obstacles, but you've learned the patterns, mastered the controls, and leveled up your abilities significantly. Your character stats are at maximum capacity! ★

◇ **Here's what elite gamers understand:** mastering difficult games requires repeated playthroughs, learning from defeats, and developing strategic thinking. They study level designs, practice timing, and memorize successful strategies. You've done exactly that through these six test levels! You've learned the mathematical game mechanics, and now you're ready for the championship tournament! ◇

### Character Stats Maxed Out

**Problem-Solving Power:** Leveled up to Expert tier through consistent training!

**Strategic Thinking:** Unlocked advanced tactical abilities through practice!

**Endurance Meter:** Can maintain focus through extended gaming sessions!

**Boss Battle Ready:** Prepared to defeat the final test day challenge!

**Gaming wisdom:** professional players stay calm during competitive matches because they've practiced under pressure. Test day is your championship match. When you encounter a challenging problem-boss, remember your six training sessions. You've defeated tougher enemies before. Use your best strategies, stay focused, and claim victory!

Want to share your gaming strategies or discuss a particularly clever solution combo? Send your achievements to [reza@testinar.com](mailto:reza@testinar.com). Let's celebrate your wins!

**Reza Nazari & Jay Daie**

Your Math Coaches for Strong Starts

# 6 FULL-LENGTH TESTS. ENDLESS POTENTIAL.

PRACTICE TODAY. SUCCEED TOMORROW.

Give your child the tools they need to build strong math skills and test-taking confidence! This book includes **6 full-length practice tests** along with standards-based practice, mixed review, word problems, and a complete answer key.

★★★  
PRACTICE  
WITH PURPOSE.  
ACHIEVE WITH  
CONFIDENCE.

## WHAT'S INSIDE:



### 6 FULL-LENGTH PRACTICE TESTS

Realistic tests designed to reflect the actual test format and help build confidence.



### STANDARDS-BASED PRACTICE

Covers all essential Grade 5 math standards with clear explanations and examples.



### MIXED REVIEW

Reinforces key concepts with a variety of question types and review exercises.



### WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world scenarios.



### COMPLETE ANSWER KEY

Step-by-step explanations for every question to support learning and growth.



### IMPROVE. PRACTICE. ACHIEVE.

Consistent practice leads to stronger skills, higher scores, and greater success.



## WHY PRACTICE MAKES A DIFFERENCE



### BUILD CONFIDENCE

Feel prepared and ready for any challenge.



### IMPROVE ACCURACY

Strengthen skills and reduce careless mistakes.



### THINK STRATEGICALLY

Develop problem-solving skills and deepen understanding.



### MANAGE TIME

Practice under timed conditions to build stamina.



### STAY MOTIVATED

Track progress and celebrate every win.



### ACHIEVE SUCCESS

Reach goals and unlock your full potential!



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