

4

COMPLETE

Oregon OSAS

Grade

MATH

5

PRACTICE TESTS

Standards-Based Test Prep with
Mixed Review, Word Problems,
and **Full Answer Key**



- ✓ **4 COMPLETE PRACTICE TESTS**
Built to reflect the test format and rigor



- ✓ **COVERS ALL ESSENTIAL TOPICS**
Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more



- ✓ **STRENGTHEN SKILLS & CONFIDENCE**
Mixed review, challenging questions, and strategic practice



- ✓ **FULL ANSWER KEY INCLUDED**
Detailed explanations for every question



**BUILD STRONG
MATH SKILLS
& TEST READINESS**



**IMPROVE ACCURACY,
SPEED, AND
PROBLEM SOLVING**



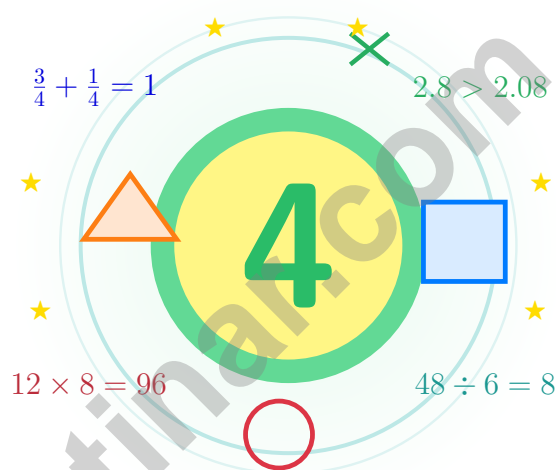
**PERFECT FOR
CLASSROOM,
HOME, OR
SELF-STUDY**



**ALIGNED TO
OREGON
STATE STANDARDS
(OSAS)**

4 Oregon OSAS Grade 5 Math Practice Tests

Four steady test-day rehearsals, woven into one strong routine



Four full tests, a smart quick review, mission-style strategy pages, and student-tested support that help Grade 5 mathematicians from The Beaver State build calm, careful, confident habits.

Jay Daie and Reza Nazari



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Open the Map, Oregon – Math Mission Time

Four practice tests woven into one calm, steady routine

Welcome Letter for Oregon Math Crew

This book gives you four chances to read closely, solve carefully, and level up your math thinking. Math thinking is like Crater Lake – it looks calm on the surface, and goes a long way down once you start exploring.

You do not need to feel perfect before you begin. You just need to stay curious, use strategies, and learn from every correction. That is how confident mathematicians are built.

Look

Look at the problem
like a careful detective.

Test

Test your idea one
careful step at a time.

Repair

Repair what was off
and try the next one.

A strong mission habit for Oregon: keep your work neat, estimate when it helps, label units carefully, and never let one hard question decide your mood for the whole page.

A Map of the Pages

A four-step routine that turns practice into real improvement

Step 1: Read

Read the quick review pages first.
Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Try

Try one full test with full attention.
Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Reflect

Reflect on which skills want more sunlight.
Circle missed questions, sort out what went sideways, and notice which skills are calling for attention.

Step 4: Lift

Lift those skills before the next test.
Read the explanation, fix the work, and carry that lesson into the very next test.

A Four-Week Oregon Mission Map

Week	Mission Focus
Week 1	Take Test 1 and read your lake's surface.
Week 2	Take Test 2 and lift word problems and step-showing.
Week 3	Take Test 3 to polish fractions, decimals, and conversions.
Week 4	Take Test 4 with calm, deep, careful focus.



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What These Tests Are For

What these four practice tests help Grade 5 students build

These three practice tests prepare Grade 5 students in the Beaver State for the Oregon OSAS with the steady focus of an evergreen morning. The goal is bigger than collecting right answers. Students are practicing how to read carefully, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every day.

Selected-Response Questions

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

Constructed-Response Questions

Students show steps, explain a method, or support an answer with clear math. Strong reasoning matters because it shows how the answer was found.

Grade 5 Ideas That Show Up Again and Again

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, mixed numbers, and decimals
- perimeter, area, volume, and measurement conversions
- tables, line plots, patterns, and coordinate points
- geometry and multi-step real-world problem solving

What strong OSAS-style work looks like: accurate math, readable steps, the right labels or units, and a final answer that really matches the question being asked.



Table of Contents

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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)

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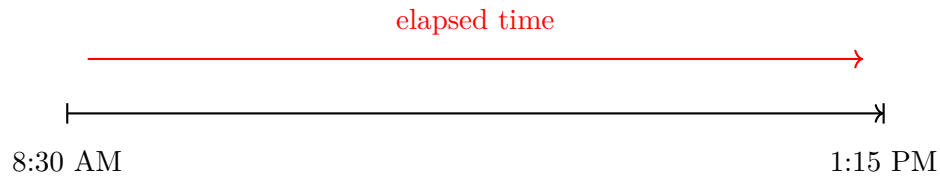
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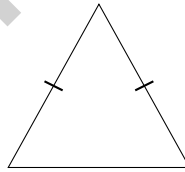
1 day = 24 hours (hr) 1 year = 52 weeks



- 3) A transport company tracks deliveries with arrival times: First delivery: 8:30 AM Second delivery: 10:45 AM Third delivery: 1:15 PM
How much time passed from the first to the last delivery?



- A. 3 hours 45 minutes C. 4 hours 45 minutes
 B. 4 hours 15 minutes D. 5 hours 15 minutes
- 4) A rectangular prism has volume 450 cm^3 and base area 50 cm^2 . What is the height?
- A. 7 cm C. 10 cm
 B. 8 cm D. 9 cm
- 5) Look at the triangle. Two sides are marked with tick marks. What kind of triangle is it based on its sides?



- A. Scalene C. Equilateral
 B. Isosceles D. Right
- 6) What is $9,200 \div 1,000$?
- A. 92,000 C. 920
 B. 92 D. 9.2



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1) If $1,620 \div 27 = 60$, which division problem has the same quotient?

A. $1,620 \div 54 = ?$

C. $810 \div 27 = ?$

B. $3,240 \div 54 = ?$

D. $1,620 \div 30 = ?$

2) A student's test score is 92.747. Round to the nearest whole number for the gradebook.

A. 92

C. 92.75

B. 92.7

D. 93

3) Five wholes are divided into pieces of size $\frac{1}{3}$. Which equation finds how many one-third pieces there are?

A. $\frac{1}{3} \div 5 = n$

C. $5 + \frac{1}{3} = n$

B. $5 \times \frac{1}{3} = n$

D. $5 \div \frac{1}{3} = n$

4) A swimming pool is 25 m long, 10 m wide, 2 m deep. Find its volume.

Record your answer in the space provided.

5) Which of these points lies on the y-axis?

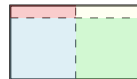
A. (4, 2)

C. (3, 0)

B. (5, 5)

D. (0, 7)

6) Multiply: $1\frac{1}{3} \times 1\frac{1}{2}$



A. 3

C. $2\frac{1}{6}$

B. $1\frac{5}{6}$

D. 2



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1) What is $15 \div \frac{1}{3}$?

A. 15

C. 45

B. 30

D. 60

2) A family drives $18\frac{3}{5}$ miles in the morning and $12\frac{2}{5}$ miles in the afternoon. How much farther did they drive in the morning?

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

C. $6\frac{1}{5}$ mi

B. 6 mi

D. 7 mi

3) Write 0.005 in word form.

A. Five tenths

C. Five thousandths

B. Five hundredths

D. Fifty thousandths

4) Add: $2\frac{7}{10} + 3\frac{6}{10}$

A. $5\frac{12}{10}$

C. $6\frac{3}{10}$

B. $5\frac{3}{10}$

D. 6

5) A concert venue has 1,250 seats. During the first show, 875 seats were sold. During the second show, 920 seats were sold. How many more seats were sold in the second show?

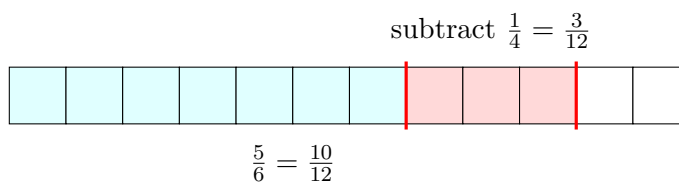
A. 45 seats

C. 55 seats

B. 50 seats

D. 60 seats

6) Subtract and simplify: $\frac{5}{6} - \frac{1}{4}$



A. $\frac{11}{12}$

C. $\frac{3}{12}$

B. $\frac{1}{2}$

D. $\frac{7}{12}$



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

- Choice C is correct.** **5.GM.A.2** The first coordinate, 15, matches the x-axis label: minutes played. The second coordinate, 450, matches the y-axis label: score. So the point means score is 450 when minutes played is 15.
- Choice A is correct.** **5.GM.A.2** The second coordinates follow 2, 5, 8, 11, adding 3 each step. The plotted points are (1,2), (2,5), (3,8), and (4,11), so they match.
- Choice C is correct.** **5.GM.C.4** 8:30 AM to 1:15 PM: from 8:30 to 12:30 is 4 hours, 12:30 to 1:15 is 45 minutes. Total: 4 hours 45 minutes.
- Choice D is correct.** **5.GM.D.7** Divide the volume by the base area: $450 \div 50 = 9$, so the height is 9 cm.
- Choice B is correct.** **5.GM.B.3** Two sides have the same tick marks, indicating they are equal in length, making this an isosceles triangle.
- Choice D is correct.** **5.NBT.A.2** Dividing by 1,000 moves the decimal point three places to the left. $9,200 \div 1,000 = 9.2$.
- Choice B is correct.** **5.NF.A.1** Subtract the whole numbers and fractions: $4\frac{5}{7} - 1\frac{2}{3} = 3 + \left(\frac{15}{21} - \frac{14}{21}\right) = 3\frac{1}{21}$.
- Choice B is correct.** **5.NF.B.6** $\frac{4}{7} \times \frac{7}{8} = \frac{28}{56}$, which simplifies to $\frac{1}{2}$ mile.
- Choice C is correct.** **5.GM.C.4** Only C is correct. A should be 700 cm, B should be 6,000 m, and D should be 9,000 mL.
- Choice A is correct.** **5.NF.A.1** LCM(5,4) = 20. $\frac{2}{5} = \frac{8}{20}$ and $\frac{1}{4} = \frac{5}{20}$. $\frac{8}{20} + \frac{5}{20} = \frac{13}{20}$.
- Choice B is correct.** **5.NBT.B.7** Line up decimal points and subtract place by place. $19.75 - 7.48 = 12.27$ yards. This confirms the answer.
- Choice B is correct.** **5.NBT.B.7** Add by place value: hundredths $0 + 8 = 8$, tenths $5 + 3 = 8$, and dollars $2 + 1 = 3$. The sum is \$3.88.
- Choice A is correct.** **5.NBT.B.5** $19 \times 22 = 19 \times (20 + 2) = (19 \times 20) + (19 \times 2) = 380 + 38 = 418$. Kai's work and total are correct.
- Choice C is correct.** **5.NBT.A.2** A: $0.1 \times 10 \times 100 = 100$. B: $0.01 \times 1000 \times 10 = 100$. C: $1 \times 10 \times 100 = 1000$. D: $0.001 \times 10000 = 10$. The largest is 1000.
- The correct answer is 9.1.** **5.NBT.A.4** Hundredths digit is 7 (with 5 in thousandths). Since $7 \geq 5$, round tenths up: $9.0 \rightarrow 9.1$.
- The correct answer is 0.9.** **5.NBT.A.3** Compare the tenths first: 0.9 has 9 tenths, 0.84 has 8 tenths, and 0.76 has 7 tenths. The greatest is 0.9.
- Choice B is correct.** **5.DR.A.1** Total miles: $(3 \times 2) + (6 \times 3) + (9 \times 4) + (12 \times 1) = 72$ miles. There are 10 students, so the fair share is $72 \div 10 = 7.2$ miles, which is about 7 miles to the nearest whole mile.
- Choice B is correct.** **5.OA.B.3** Cups of Flour = 3 × Batches. For 5 batches: $3 \times 5 = 15$ cups.
- Choice C is correct.** **5.GM.D.5** Find each part first: Prism A is $8 \times 2 \times 2 = 32$ cubic feet, and Prism B is $3 \times 5 \times 1 = 15$ cubic feet. Because the parts do not overlap, add them: $32 + 15 = 47$ cubic feet.
- Choices A, B are correct.** **5.NF.B.7** The half yard is shared into 4 equal parts. A shows the division, and B checks that 4 equal shares make the original half yard.
- Choice D is correct.** **5.GM.D.5** The base is $7 \times 6 = 42$ square feet. With a height of 2 feet, the volume is $42 \times 2 = 84$ cubic feet.
- Choice C is correct.** **5.NBT.A.2** Multiplying by 1,000 moves the decimal three places right: $0.65 \rightarrow 6.5 \rightarrow 65 \rightarrow 650$.
- Choice D is correct.** **5.NBT.B.6** $567 \div 21 = 27$. Check: $21 \times 27 = 567$.
- Choice B is correct.** **5.NF.B.5** $\frac{8}{7} > 1 > \frac{7}{8}$, so $11 \times \frac{8}{7}$ is the greater product.
- Choice C is correct.** **5.OA.B.3** The block counts are 2, 4, 6, and so on, so Figure number n has $2n$ blocks. Figure 12 has $2 \times 12 = 24$ blocks.
- Choice D is correct.** **5.OA.A.1** Each parenthesis can be solved separately: $18 \div 3 = 6$ and $2 \times 7 = 14$. Add those results to get $6 + 14 = 20$.
- The correct answer is 20.** **5.NF.B.7** $5 \div \frac{1}{4} = 20$. Each pound makes 4 quarter-pound loaves, so 5 pounds makes 20 loaves.
- Choice B is correct.** **5.GM.B.3** A parallelogram has both pairs of opposite sides parallel. Its opposite sides are also equal in length.



Case Closed: Success Ahead

Greetings, Math Detective!

◇ Outstanding investigation! You've cracked the code on 4 complete practice tests, examining every clue and solving every mathematical mystery like a brilliant detective! Each problem was a puzzle, and you methodically gathered evidence, analyzed patterns, and reached accurate conclusions. That analytical thinking you've developed will serve you well on test day and beyond! ◇

★ **Here's what master detectives know:** not every case solves itself immediately. Sometimes you need to examine the evidence from different angles, try various approaches, and remain persistent until you crack the code. You've practiced exactly that through these 4 tests! Your investigative skills have sharpened considerably, and you're ready to solve any mathematical mystery that comes your way! ★

Detective's Case File: Your Skills

- **Clue Collection:** You gather all important information from problems before solving!
- **Pattern Recognition:** You identify mathematical patterns like a trained investigator!
- **Evidence Analysis:** You evaluate which strategies work best for each problem type!
- **Case Resolution:** You stay focused until you've found the correct solution!

Detective wisdom: the best investigators take notes about their methods so they can solve similar cases faster in the future. Your brain has been doing exactly that throughout these 4 tests, storing successful strategies in your mental filing cabinet. On test day, you'll be able to retrieve those proven methods instantly!

If you want to share a proud moment or ask a question, please email me at jay@testinar.com. I'd love to hear from you!

Jay Daie

Your Math Detective Coach

4 COMPLETE TESTS. CONFIDENCE. SUCCESS.



Give your child the practice and confidence they need to excel in **Grade 5 Math**. This book includes **4 full-length** practice tests designed to build skills, improve test readiness, and help students reach their full potential.

WHAT'S INSIDE:



4 COMPLETE PRACTICE TESTS

Full-length tests that reflect real test format and rigor.



COVERS ALL GRADE 5 TOPICS

Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more.



MIXED REVIEW & WORD PROBLEMS

Build problem-solving skills with mixed review questions and real-world word problems.



DETAILED ANSWER KEY

Step-by-step explanations for every question to help students learn and improve.



BUILD CONFIDENCE & IMPROVE SCORES

Practice consistently, reduce test anxiety, and achieve your best score!



PRACTICE SMART. LEARN MORE. ACHIEVE YOUR BEST.



Strengthen
Math Skills



Improve
Accuracy
& Speed



Master
Essential
Concepts



Boost
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