

Oregon OSAS

GRADE 6

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



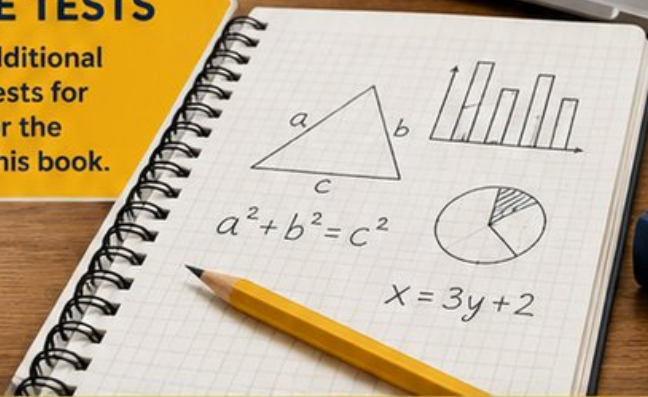
5 PRINTED TESTS

- ✓ Full-Length Practice Tests
- ✓ Realistic Questions
- ✓ Answer Key & Explanations



+ 2 ONLINE TESTS

Use these two additional
online practice tests for
extra review after the
printed tests in this book.



PREPARE • PRACTICE • SUCCEED



5 Oregon OSAS Grade 6 Math Practice Tests

Standards-Aligned Forest-To-Coast Reasoning for Oregon Statewide Assessment System



Five complete 40-question Grade 6 practice rounds for OSAS, built for forest-to-coast reasoning with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Oregon Math Explorer!

Eight focused rounds using forest-to-coast reasoning

This book gives you five full Grade 6 practice tests for OSAS. Each round uses coastal trails, forest paths, and careful graph reading as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Oregon Practice Promise

Let the details guide the work: read scale, label units, and check the answer in context.

Read

Plan

Check

How to Use This Book

A five-session routine for forest-to-coast reasoning

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Work in order.** Take one 40-question test at a time in a quiet place.
3. **Mark confidence.** Put a small star beside problems where your plan felt strong.
4. **Correct actively.** Retry missed items before reading the full explanation.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

Oregon review rhythm: Practice a round, review the trail of decisions, and improve one strategy next time.



What Is Inside?

Eight OSAS tests, 320 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–4	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 5	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Forest-to-coast reasoning means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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1) A video game player's score was -150 points. After winning a round, their score increased by 200 points. What is their new score?

A. -350 points

C. 50 points

B. -50 points

D. 350 points

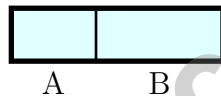
2) Divide $9,108 \div 52$ and identify the quotient (whole-number part). Round down if there is a remainder.

A. 175

C. 183

B. 180

D. 190



3)

The bar shows two sections. Section A is $\frac{2}{5}$ of the bar and section B is $\frac{3}{5}$. What is the ratio of A to B?

A. 3 : 2

C. 5 : 3

B. 3 : 5

D. 2 : 3

4) At a bakery, 4 loaves of bread cost \$16. At this rate, what is the cost of 7 loaves?

A. \$24

C. \$32

B. \$28

D. \$36



1) Write an expression for “9 divided by the difference of c and 2”.

A. $\frac{9}{c-2}$

B. $\frac{9}{c} - 2$

C. $9 - \frac{c}{2}$

D. $\frac{c-2}{9}$

2) Two box plots are shown for Classes A and B. Class A has a median of 78 and IQR of 12. Class B has a median of 82 and IQR of 8. Which class has more consistent scores?

A. Class B, because it has a smaller IQR.

C. Class A, because it has a higher median.

B. Class A, because it has a larger IQR.

D. They are equally consistent.

3) Two manufacturing plants' defect rates (per 1000 units) are summarized below.

Plant	Mean	Median	Range
Plant X	12	11	8
Plant Y	10	10	20

Which plant's performance is more predictable?

A. Plant X, because it has a lower range

C. Both are equally predictable

B. Plant Y, because it has a lower mean

D. Plant X, because the mean equals the median



4) A spinner is divided into 4 equal sections colored red, blue, green, and yellow. What is the probability of spinning red or blue?

A. 0.25

C. 0.5

B. 0.33

D. 0.75

5) A tech company surveyed 560 employees about department. The circle graph shows $\frac{7}{16}$ work in engineering. How many work in engineering?

A. 220

C. 280

B. 245

D. 315

6) A submarine at -300 feet relative to sea level moves up 75 feet. What is its new depth?



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1) If $a = -10$ and $b = 7$, what is $a + b - (-3)$?

A. 0

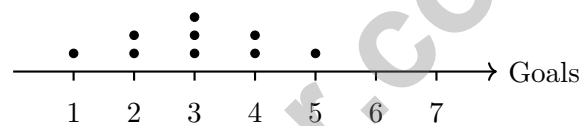
C. 6

B. -6

D. -20

2) Solve for x : $5x = 30$.

3) A dot plot shows the number of goals scored by 9 players:



What is the median number of goals?

A. 2

C. 4

B. 3

D. 5

4) A toy store records daily sales revenue over two weeks:
Week 1: \$180, \$200, \$195, \$210, \$190, \$205, \$215
Week 2: \$160, \$240, \$175, \$225, \$190, \$210, \$200
Both weeks have the same mean of \$199. Without calculating MAD, which week likely has a higher MAD?

A. Week 1 has a higher MAD.

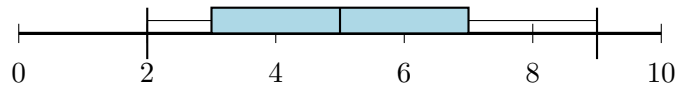
D. Cannot be determined without calculation.

B. Week 2 has a higher MAD.

C. Both weeks have the same MAD.



5) Use the box plot below to find the median:



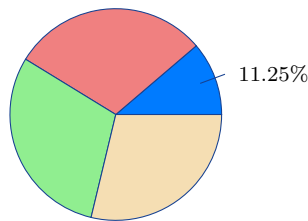
- A. 2
- B. 3
- C. 5
- D. 7

6) A library tracks borrowing patterns for fiction books. The checkout times (days) for 12 books are: 5, 7, 7, 8, 9, 10, 11, 12, 14, 15, 18, 25. Which measure should the librarian use to decide the typical checkout duration?

- A. Mean, to include all books
- B. Range, to see the spread
- C. Mode, because most books are returned
- D. Median, because the 25-day outlier is unrepresentative

7) A standard die is rolled. What is the probability of rolling a 1 or a 2?

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



8)

A park had 880 visitors. The circle graph shows 11.25% were there for a picnic. How many visitors were there for a picnic?

- A. 99
- B. 88
- C. 75
- D. 110



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Oregon OSAS Practice Test Answer Keys

How to use this Oregon OSAS answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to forest-to-coast reasoning
3. rework the problem before reading the full explanation, using this reminder:
Let the details guide the work: read scale, label units, and check the answer in context.

A calm Oregon correction routine turns every missed item into useful practice. Practice a round, review the trail of decisions, and improve one strategy next time.



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Oregon Practice Test Answers and Explanations

Review the five printed OSAS tests with observant, steady, and ready for the next path habits.

Practice Test 1 Answers and Explanations

- Choice C is correct. **6.AEE.A.3** Adding a score increase to a negative score: $-150 + 200 = 50$ points.
- Choice A is correct. **6.NS.B.2** $9,108 \div 52 = 175$ remainder 8. Check: $52 \times 175 = 9,100$, and $9,100 + 8 = 9,108$. So the whole-number quotient is 175.
- Choice D is correct. **6.RP.A.1** Both sections are measured in fifths, so compare the numerators. A has 2 fifths and B has 3 fifths, giving a ratio of 2 : 3.
- Choice B is correct. **6.RP.A.2** Unit rate: $\$16 \div 4 = \4 per loaf. For 7 loaves: $7 \times \$4 = \28 .
- Choice C is correct. **6.RP.A.3** Store A: $2 \div 8 = 0.25$ per orange. Store B: $3 \div 12 = 0.25$ per orange. Same unit rate.
- Choice D is correct. **6.GM.A.2** $V = 8 \times 6 \times 5 = 48 \times 5 = 240 \text{ in}^3$.
- Choice A is correct. **6.RP.A.1** Simplify 6 : 4 by dividing both parts by 2 to get 3 : 2. Statement Y says the same thing in words, so the two statements match.
- The correct answer is 8. **6.DR.B.2** $Q_1 = 5$ and $Q_3 = 13$, so $\text{IQR} = 13 - 5 = 8$.
- Choice B is correct. **6.RP.A.3** Divide apples by bags: $14 \div 2 = 7$ apples per bag.
- Choice D is correct. **6.RP.A.3** First three rows: $3 : 9 = 1 : 3$, $5 : 15 = 1 : 3$, $7 : 21 = 1 : 3$ (consistent). Fourth row: $6 : 17 \neq 1 : 3$ (inconsistent). The consistent ratio is 1 : 3.
- Choice A is correct. **6.RP.A.3** The unit rate is $\frac{45}{1} = 45$ miles per hour. Since the ratio is constant ($\frac{90}{2} = 45$, $\frac{135}{3} = 45$), the relationship is proportional. A proportional relationship through the origin has all ratios equal.
- Choice C is correct. **6.RP.A.3** $\frac{12}{40} = \frac{3}{10} = \frac{30}{100} = 30\%$ (simplify, then write as a fraction with denominator 100).
- Choice C is correct. **6.RP.A.3** To find the percent: $\frac{45}{60} = \frac{3}{4} = 0.75 = 75\%$.
- Choice B is correct. **6.RP.A.3** Multiply: $1.5 \times 5280 = 7920$ feet.
- Choice B is correct. **6.DR.D.4** Discount amount: 25% of $\$80 = 0.25 \times 80 = \20 . Sale price: $\$80 - \$20 = \$60$.
- Choice C is correct. **6.NS.C.6** Solution A: mass/volume = $50/10 = 5$. Solution B: mass/volume = $75/15 = 5$. Both solutions have the same constant ratio of 5 grams per mL.
- Choice C is correct. **6.DR.C.3** Available: $100\% - 35\% = 65\%$ of $\$400 = 0.65 \times 400 = \260 .
- The correct answer is The median divides the box into two 25% regions, and the upper whisker holds the top 25%. **6.DR.D.4** B is correct: the median line splits the box so each half represents 25% of the middle 50% (thus 25% each). D is correct: the upper whisker extends from Q_3 to the max, representing the top 25%. A is wrong (lower whisker is bottom 25%, not 50%). C is incorrect (75% of data is at or below Q_3 , not above it). E is false (IQR is $Q_3 - Q_1$, not the range).
- Choice B is correct. **6.NS.A.1** You are counting how many $\frac{1}{4}$ -cup servings fit inside 2 cups—that's a division problem: $2 \div \frac{1}{4}$. Rewrite as 2×4 , which equals 8 servings.
- The correct answer is 3. **6.RP.A.3** Number of green marbles = $\frac{1}{3} \times 9 = 3$.
- Choice A is correct. **6.NS.B.3** Multiply: $63 \times 9 = 567$. With $1 + 1 = 2$ decimal places total, the answer is 5.67.
- Choice B is correct. **6.NS.B.4** Prime factors: $10 = 2 \times 5$, $12 = 2^2 \times 3$, $15 = 3 \times 5$. LCM uses each prime the greatest number of times: $2^2 \times 3 \times 5 = 60$.
- Choice A is correct. **6.NS.B.4** Distributive property: $10(3 + 9) = 10 \cdot 3 + 10 \cdot 9 = 30 + 90 = 120$. Choice A shows the expanded form.
- Choice A is correct. **6.NS.C.5** To order integers from least to greatest, place the most negative number first, then move toward zero and positive numbers. The order is $-4 < -1 < 0 < 2$.



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From Your Math Family

Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 5 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

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

Jay Daie

Your Math Family

PRACTICE MORE. ACHIEVE MORE.

This book provides **5 full-length Math practice tests** designed to help Grade 6 students strengthen their skills, build confidence, and excel on standardized assessments.

Each test is carefully crafted to reflect the latest standards and covers a wide range of math topics with realistic questions and detailed answer explanations.



BUILD CONFIDENCE

Practice builds familiarity and reduces test anxiety.



IMPROVE ACCURACY

Sharpen skills and avoid common mistakes.



ACHIEVE SUCCESS

Consistent practice leads to greater results.

WHAT'S INSIDE?



5 Full-Length Practice Tests

Realistic tests designed to mirror actual exam conditions.



Realistic Questions

A variety of question types to strengthen problem-solving skills.



Answer Keys & Explanations

Detailed solutions to help students learn and improve.



Performance Tracking

Track progress and identify areas that need improvement.



Comprehensive Coverage

All essential topics aligned with Grade 6 math standards.



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