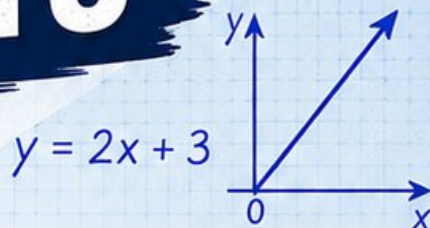


3 Oregon OSAS

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



$$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$$

$36\% \text{ of } 150 = ?$



3 | PRINTED TESTS



2 | ONLINE TESTS



Build Confidence



Master Key Math Skills



Answer Explanations for Every Question



Test-Taking Strategies That Work

USE THESE TWO
ADDITIONAL ONLINE PRACTICE TESTS
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.

3 Oregon OSAS Grade 6 Math Practice Tests

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



Three 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!

Three focused rounds using forest-to-coast reasoning

This book gives you three 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 three-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?

Three OSAS tests, 120 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Test 3	Final stamina round for expressions, equations, geometry, data, problem models, and mixed review.
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 stem-and-leaf plot for test scores has the shape:

Stem	Leaf
8	
9	0, 1, 2, 3, 4, 5, 6, 7, 8, 9

What can you infer from this plot?

- A. Most scores are in the 90s C. There are no scores in the 80s
 B. The mode is 95 D. The range is 10
- 2) Option 1: 16 bagels for \$8. Option 2: 20 bagels for \$9. Which is the better buy?
- A. Option 1 C. Both cost the same
 B. Cannot determine D. Option 2
- 3) A gym charges based on the number of personal training sessions. The graph shows points (4, 160) and (6, 240) on a straight line through the origin. What is the cost per session?
- A. \$20 per session C. \$40 per session
 B. \$30 per session D. \$80 per session
- 4) A student says “62% means $\frac{62}{10}$.” Is this correct?
- A. Yes, this is correct. C. No, $62\% = 62$.
 B. No, $62\% = \frac{6.2}{10}$. D. No, $62\% = \frac{62}{100}$.



5) A sweater originally costs \$40. It is on sale for 25% off. What is the sale price?

A. \$10

C. \$30

B. \$15

D. \$50

6) A scientist measures a sample as 750 millimeters. How many centimeters is this?
(Use 1 centimeter = 10 millimeters.)

A. 7.5 cm

C. 750 cm

B. 75 cm

D. 7500 cm

7) The receipt below shows items from a store with 6% sales tax.

Item	Price
Notebook	\$5.00
Pen pack	\$3.50
Folder	\$2.00
Subtotal	\$10.50
Tax (6%)	?
Total	?

What is the sales tax on this purchase?

A. \$0.42

C. \$0.78

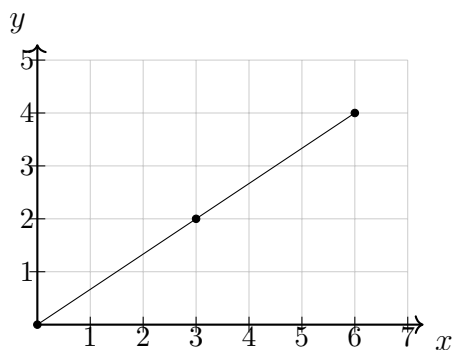
B. \$0.63

D. \$1.05



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- 8) A line on a coordinate plane has the equation $y = \frac{2}{3}x$. Which point lies on this line?



- A. (2, 4) C. (6, 4)
- B. (3, 3) D. (6, 9)
- 9) A company's budget has a shortfall of 15%. If the budgeted amount was \$20000, how much is the shortfall in dollars?
- A. \$2000 C. \$3000
- B. \$2500 D. \$3500
- 10) A rectangular garden is drawn with a scale of 1 cm = 2 m. The drawing shows the garden as 5 cm long and 3 cm wide. What is the perimeter of the actual garden?
- A. 8 m C. 32 m
- B. 16 m D. 64 m
- 11) What is $\frac{10}{11} \div \frac{2}{11}$?
- A. $\frac{20}{121}$ C. $\frac{12}{11}$
- B. $\frac{8}{11}$ D. 5

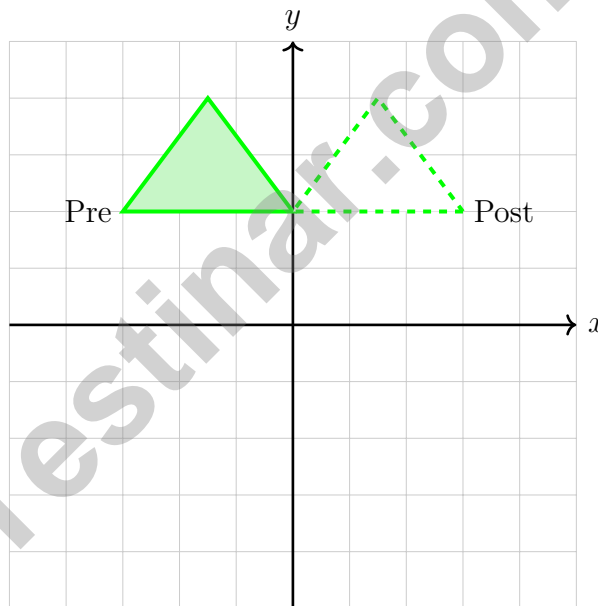


1) Use the table to match each term to its coefficient:

Term	Coefficient
$7x$	7
$-3y$	-3
12	?

What is the coefficient of the third term (a constant with no variable)?

- A. The constant has no coefficient C. 12
 B. 1 D. 0



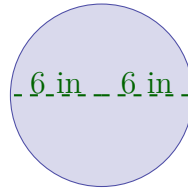
2)

The solid triangle is reflected over the y -axis to create the dashed triangle. If a vertex of the original triangle is at $(-3, 2)$, what is the corresponding vertex of the image?

- A. $(3, 2)$ C. $(3, -2)$
 B. $(-3, -2)$ D. $(-3, 2)$



Diameter = 12 in



3)

A circle has a diameter of 12 inches (shown above). What is the approximate area using $\pi \approx 3.14$?

- A. 37.68 in^2
 C. 150.72 in^2
 B. 113.04 in^2
 D. 452.16 in^2

4) A teacher asks: “What is a typical shoe size for sixth graders?” Which statement is true?

- A. This is not statistical because all sixth graders wear the same shoe size.
 C. This is statistical because the teacher asked it.
 B. This is non-statistical because it is about shoes.
 D. This is statistical because shoe sizes vary among sixth graders.

5) Plot A shows: 3, 4, 5, 6, 7. Plot B shows: 2, 5, 5, 5, 8. Which has the smaller median?

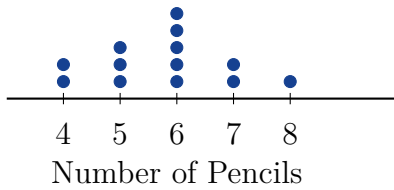
- A. Plot A
 C. Cannot be determined
 B. Plot B
 D. Both have the same median

6) A wooden crate has dimensions $5\frac{1}{2}$ m, 2 m, and 4 m. What is its volume in cubic meters?



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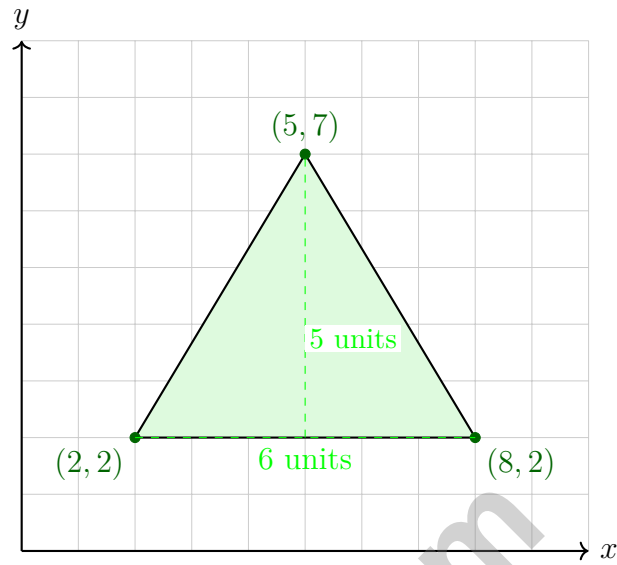
- 1) A dot plot shows the number of pencils in each student's pencil case. Which statement is true about the data?



- A. Most students have 4 pencils C. Most students have 8 pencils
 B. Most students have 6 pencils D. No students have 7 pencils
- 2) Which statement correctly identifies the height of a parallelogram?
- A. The height is the length of one of the slanted sides. C. The height is the same as the longer base.
 B. The height is the perpendicular distance between two parallel sides. D. The height is always equal to one side length.
- 3) The point $(4, 2)$ is reflected across the y -axis. What is the new x -coordinate?

- 4) A rectangular prism has volume 120 cm^3 , width 5 cm, and height 4 cm. What is its length?
- A. 4 cm C. 8 cm
 B. 6 cm D. 15 cm





5)

What is the area of this triangle?

- A. 15 square units C. 25 square units
 B. 20 square units D. 30 square units



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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.



Scan me!
For more practice
& answers

Oregon Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- Choice A is correct.** (6.DR.D.4) Stem 9 has all 10 leaves (all digits 0-9), while stem 8 is empty. This clearly shows most scores are in the 90s.
- Choice D is correct.** (6.RP.A.3) Option 1: $8 \div 16 = 0.50$ per bagel. Option 2: $9 \div 20 = 0.45$ per bagel. Option 2 is cheaper.
- Choice C is correct.** (6.RP.A.3) The unit rate is $\frac{\$160}{4 \text{ sessions}} = \40 per session. Verify: $\frac{\$240}{6} = \40 per session ✓.
- Choice D is correct.** (6.RP.A.3) Percent means “per 100,” so $62\% = \frac{62}{100}$, not $\frac{62}{10}$. This is a common error analysis item.
- Choice C is correct.** (6.RP.A.3) 25% of \$40 is $0.25 \times 40 = \$10$. Sale price is $\$40 - \$10 = \$30$.
- Choice B is correct.** (6.RP.A.3) Divide: $750 \div 10 = 75$ cm.
- Choice B is correct.** (6.DR.D.4) Sales tax: 6% of \$10.50 = $0.06 \times 10.50 = \$0.63$.
- Choice C is correct.** (6.NS.C.6) For $y = \frac{2}{3}x$, when $x = 6$, $y = \frac{2}{3}(6) = 4$, so (6, 4) is on the line. The other points do not satisfy the equation: (2, 4) would need $y = \frac{4}{3}$, (3, 3) would need $y = 2$, and (6, 9) would need $y = 4$.
- Choice C is correct.** (6.DR.C.3) Shortfall: 15% of \$20000 = $0.15 \times 20000 = \$3000$.
- Choice C is correct.** (6.RP.A.3) Actual dimensions: $5 \times 2 = 10$ m and $3 \times 2 = 6$ m. Perimeter: $2(10 + 6) = 32$ m.
- Choice D is correct.** (6.NS.A.1) $\frac{10}{11} \times \frac{11}{2} = \frac{110}{22} = 5$.
- Choice A is correct.** (6.NS.B.2) $5,460 \div 28 = 195$ exactly. Check: $28 \times 195 = 5,460$.
- Choice A is correct.** (6.NS.B.3) Add: $2.25 + 3.75 = 6.0$ km.
- Choice B is correct.** (6.NS.B.4) $56 = 8 \times 7 = (2 \times 2 \times 2) \times 7 = 2^3 \times 7$. Options A, C, and D contain composite factors.
- Choice B is correct.** (6.NS.B.4) $5(2 + 8) = 5 \cdot 2 + 5 \cdot 8 = 10 + 40 = 50$. Only Choice B shows the correct expansion via the distributive property.
- The correct answer is 30.** (6.RP.A.1) Red marbles are the 3-part amount. Since $18 \div 3 = 6$, each part is worth 6 marbles, and blue marbles are 5 parts: $5 \times 6 = 30$.
- Choice C is correct.** (6.NS.C.5) On a number line, -3 is to the right of -8 , so -3 is greater than -8 . The fewer negative units from zero, the greater the number.
- The correct answer is Girls to boys is 10 : 15 = 2 : 3 (Choice A is correct). Boys to total is 15 : 25 = 3 : 5 (Choice B is correct).** (6.RP.A.1) Choice A is correct because girls to boys is 10 : 15, which simplifies to 2 : 3. Choice B is correct because boys to total is 15 : 25, which simplifies to 3 : 5. The other choices either flip the order, swap which group is named first, or use the wrong total (10 girls out of 25 students is 2 : 5, not 1 : 3).
- Choice A is correct.** (6.NS.C.7) The absolute value of zero is zero. Zero is its own distance from zero on the number line.
- Choice B is correct.** (6.NS.C.6) Absolute values: $|-2.3| = 2.3$, $|-4.1| = 4.1$, $|3.9| = 3.9$, $|1.8| = 1.8$. The greatest is 4.1.
- Choice B is correct.** (6.NS.C.6) By definition, Quadrant II (upper left) has all points where $x < 0$ and $y > 0$.
- Choice D is correct.** (6.NS.C.7) $-6 < -5$ because -6 is further left on the number line.
- Choice A is correct.** (6.NS.C.8) Same x -coordinate (-7): $|4 - (-3)| = |4 + 3| = 7$ units.
- The correct answer is 55 miles per hour.** (6.RP.A.3) Divide miles by hours: $55 \div 1 = 55$ miles per hour (or $165 \div 3 = 55$).
- The correct answer is \$1.50.** (6.RP.A.2) $\$9 \div 6 = \1.50 per muffin. Accept 1.5 as equivalent.
- Choice A is correct.** (6.NS.B.3) Integers increase from left to right on a number line. $-8 < -3 < 0 < 5 < 12$.
- Choice B is correct.** (6.NS.B.2) Positive divided by negative is negative: $\frac{30}{-5} = -6$.



Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 3 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 3 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

Perfect for classroom use, homework, test preparation, and extra practice at home.

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- 3 Full-Length Printed Tests
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-  Detailed Answer Explanations

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Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



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Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

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- ✓ The Number System
- ✓ Expressions & Equations
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- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 ONLINE TESTS

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