

10

Oklahoma OSTP

GRADE
6
MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key



10 PRINTED TESTS

Realistic practice to build confidence and mastery



2 ONLINE TESTS

Extra practice for continued success



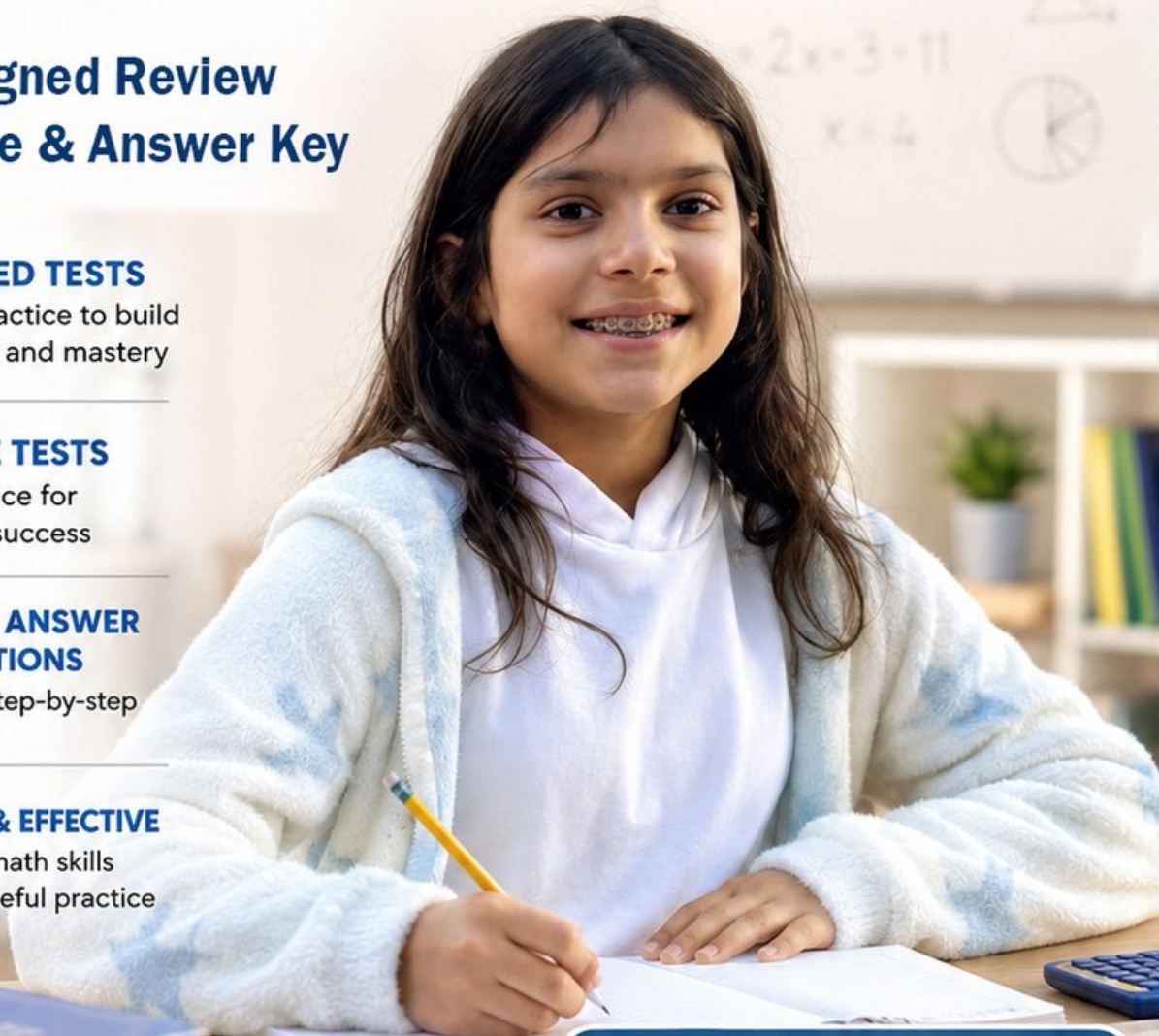
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



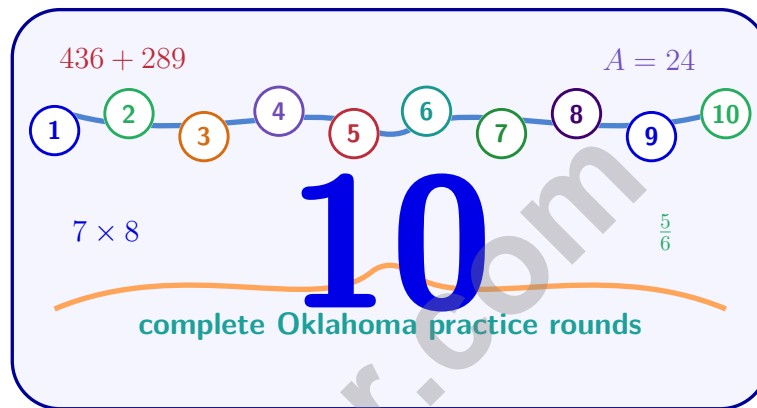
10 PRINTED TESTS
+ 2 ONLINE TESTS

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

PRACTICE • REVIEW • SUCCEED

10 Oklahoma OSTP Grade 6 Math Practice Tests

Standards-Aligned Ready-To-Start Reasoning for Oklahoma School Testing Program



Ten complete 40-question Grade 6 practice rounds for OSTP, 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, Oklahoma Math Explorer!

Ten steady rounds on a Sooner State review trail

This book gives you ten full Grade 6 practice tests for OSTP. Each round uses wide skies, red-dirt roads, and determined math work as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Oklahoma Practice Promise

Begin with what you know, then keep the steps moving. I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for ready-to-start reasoning

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Work in a quiet place and answer all 40 questions.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Oklahoma review rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Ten OSTP tests, 400 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategy choices.
Test 10	Final Oklahoma round to show growth across the whole book.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Ready-to-start reasoning means recognizing the skill even when the next question changes topic.



Scan me!
For more practice
& answers

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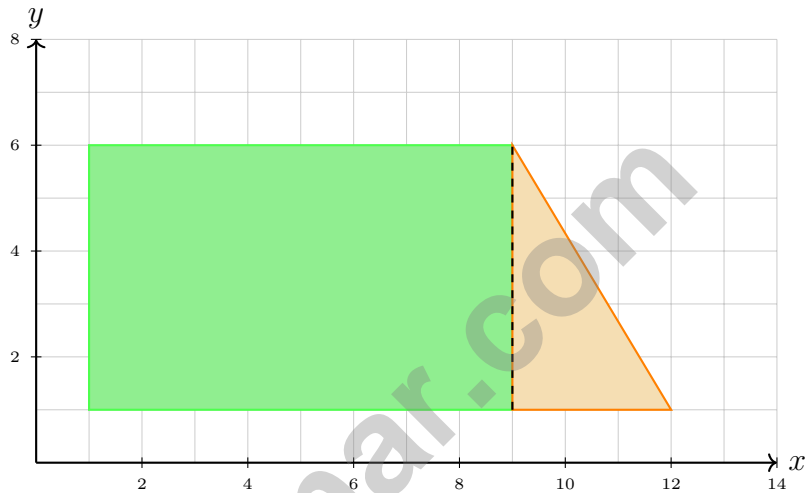
1) A restaurant sells t tacos per day. Which expression represents the total number of tacos sold in 7 days?

A. $t + 7$

C. $t - 7$

B. $\frac{t}{7}$

D. $7t$



2)

A composite figure consists of a rectangle and a triangle. The rectangle has vertices at $(1, 1)$, $(9, 1)$, $(9, 6)$, and $(1, 6)$. The triangle has vertices at $(9, 1)$, $(12, 1)$, and $(9, 6)$. What is the total area in square units?



3) A student saves \$15 out of every \$100 earned. What percentage of earnings does the student save?

A. 6%

B. 15%

C. 25%

D. 85%

4) A punch recipe mixes 1 part juice with 4 parts water. If you use 8 cups of juice, how much water should you use?

A. 2 cups

B. 12 cups

C. 32 cups

D. 4 cups

5) A truck travels 350 miles on 14 gallons of gas. How many miles per gallon is the fuel efficiency?

A. 20 mpg

B. 22 mpg

C. 24 mpg

D. 25 mpg

6) Four numbers have a mean of 25. Three of them are 20, 28, 32. What is the fourth number?

7) An architect is designing a house. On the blueprint, the house is drawn using a scale of 1 inch = 4 feet. The actual house will be 32 feet long. How long should the house be drawn on the blueprint?

A. 4 inches

B. 8 inches

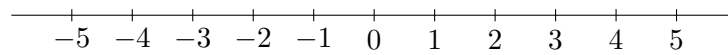
C. 12 inches

D. 16 inches



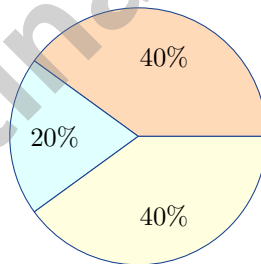
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& answers

8) Which number line correctly shows the position of -5 ?



What is the correct location of -5 on the number line above?

- A. Between -6 and -4 , closer to -4
 - B. At the fifth tick mark to the right of zero
 - C. At the fifth tick mark to the left of zero
 - D. Exactly at zero
- 9) Two summer camps compare camper satisfaction scores (0–100) using histograms. Camp A has a symmetric, bell-shaped distribution. Camp B has a right-skewed distribution. Both have the same median of 75. What is most likely different?
- A. Camp A’s mean is higher than Camp B’s
 - B. Means cannot be compared for differently-shaped distributions
 - C. Both have the same mean
 - D. Camp B’s mean is higher than Camp A’s



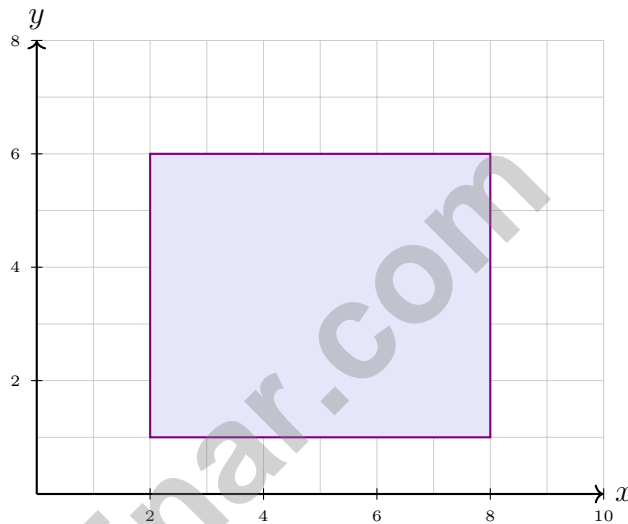
10)

A circle graph shows 300 total items. How many items are in one of the 40% sections?

- A. 120
- B. 100
- C. 80
- D. 140

1) A rectangular prism has length 8 m, width 4 m, and height 3 m. Find the surface area.

- A. 96 m^2 C. 192 m^2
 B. 152 m^2 D. 288 m^2



2)

What is the area of the rectangle with vertices at $(2, 1)$, $(8, 1)$, $(8, 6)$, and $(2, 6)$?

- A. 24 square units C. 36 square units
 B. 30 square units D. 40 square units

3) Which question is NOT statistical?

- A. What was the temperature each day last week? C. What is the favorite sport of students in this school?
 B. How many hours do sixth graders sleep each night? D. What is the boiling point of water?



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& answers

- 4) Which measure describes the SPREAD of a data set?
- A. Mean C. Range
 B. Median D. Mode
- 5) Data Set A: 5, 6, 7, 8, 9 (Mean = 7, Median = 7) Data Set B: 1, 5, 7, 8, 24 (Mean = 9, Median = 7) Which statement is true?
- A. Set A is more skewed C. The means are equal
 B. Set B has a larger outlier D. Set A has a larger outlier
- 6) Calculate the MAD for the data: 1, 3, 5, 7, 9. (Mean = 5)
- A. 2 C. 3
 B. 2.4 D. 5
- 7) A frequency table is created from survey data on movie preferences. The table shows: Action: 12; Comedy: 18; Drama: 9; Horror: 6. If this data is represented in a bar graph, which category has the highest bar?

Genre	Frequency
Action	12
Comedy	18
Drama	9
Horror	6

- A. Action C. Drama
 B. Comedy D. Horror



- 4) A recipe calls for 2 cups of flour for every 3 cups of sugar. Which statement correctly describes the table?

Flour (f)	2	4	6	8
Sugar (s)	3	6	9	12

- A. Proportional; $s/f = 2/3$ throughout
 C. Proportional; $f/s = 2/3$ throughout
 B. Not proportional; the ratio changes
 D. Cannot determine from the table
- 5) In a recipe, the ratio of sugar to flour is 2 : 5. If the recipe uses 10 cups of flour, how many cups of sugar are needed?

- 6) How many $\frac{1}{4}$ -cup servings are in 2 cups?

- A. 6
 B. 8

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

- 7) What is the prime factorization of 84?

- A. $2^2 \times 21$
 B. $2^2 \times 3 \times 7$

- C. 3×28
 D. 4×21



Oklahoma OSTP Practice Test Answer Keys

How to use this section with a Grade 6 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 D is correct.** (6.N.2.2) Multiply the number of tacos per day by 7 days: $7t$.
- 2) **The correct answer is 47.5.** (6.N.4.4) Rectangle: base $9 - 1 = 8$, height $6 - 1 = 5$, area = 40 square units. Triangle: base $12 - 9 = 3$, height $6 - 1 = 5$, area = $\frac{1}{2} \times 3 \times 5 = 7.5$ square units. Total = $40 + 7.5 = 47.5$ square units.
- 3) **Choice B is correct.** (6.D.1.1) The ratio is $\frac{15}{100} = 0.15 = 15\%$.
- 4) **Choice C is correct.** (6.D.2.3) Use the ratio as a recipe: for every 1 cup of juice, there are 4 cups of water. With 8 cups of juice, multiply $8 \times 4 = 32$ cups of water.
- 5) **Choice D is correct.** (6.N.4.4) $350 \div 14 = 25$ miles per gallon.
- 6) **The correct answer is 20.** (6.N.4.2) Total sum = $25 \times 4 = 100$. Sum of three = $20 + 28 + 32 = 80$. Fourth = $100 - 80 = 20$.
- 7) **Choice B is correct.** (6.N.3.3) Divide by the scale: $32 \div 4 = 8$ inches.
- 8) **Choice C is correct.** (6.A.1.3) On a number line, negative numbers are to the left of zero. -5 is located five units to the left of zero.
- 9) **Choice D is correct.** (6.GM.2.3) Camp A (symmetric) has mean \approx median = 75. Camp B (right-skewed) has mean $>$ median, so mean $>$ 75. Camp B's high-value tail pulls the mean above the median, making it higher than Camp A's mean.
- 10) **Choice A is correct.** (6.N.1.4) 40% of 300 is $0.40 \times 300 = 120$ items.
- 11) **Choice A is correct.** (6.A.1.2) Red comes first, so begin with $8 : 12$. Divide both parts by the GCF, 4, to get $2 : 3$.
- 12) **Choice C is correct.** (6.N.2.4) Divide cost by pounds: $3 \div 2 = 1.50$ dollars per pound.
- 13) **Choice B is correct.** (6.N.1.1) The ratio is $6 : 5$. When guitars are 18 (multiply by 3), drums are $5 \times 3 = 15$.
- 14) **Choice D is correct.** (6.A.1.2) Pick the unit rate that matches the question. Since the y-axis is pages and the x-axis is minutes, the unit rate is $\frac{\text{pages}}{\text{minutes}} = \frac{5}{10} = 0.5$ pages per minute. In 50 minutes, the student reads $50 \times 0.5 = 25$ pages. (You can also reason: 10 minutes per 5 pages means 2 minutes per page, so $50 \div 2 = 25$ pages.)
- 15) **Choice B is correct.** (6.N.4.2) $50\% = \frac{50}{100} = 0.5$.
- 16) **Choice B is correct.** (6.A.1.2) 0.5% of $\$300,000 = 0.005 \times 300,000 = \$1,500$.
- 17) **Choice D is correct.** (6.A.3.1) Cross-multiply: $4 \times 15 = 6 \times x$, so $60 = 6x$, thus $x = 10$.
- 18) **Choice A is correct.** (6.N.2.6) Divide: $500 \div 1000 = 0.5$ kg.
- 19) **Choice A is correct.** (6.N.1.3) Compare unit prices instead of just sizes. Small: $\$3.20 \div 16 = \0.20 per oz. Large: $\$5.00 \div 20 = \0.25 per oz. The small bottle is actually cheaper per ounce, so Omar's mistake was choosing without calculating the unit price.
- 20) **Choice B is correct.** (6.A.2.1) The data point $(0, 2)$ shows that the line does not pass through the origin. The ratios are not constant either: $4/1 = 4$, $6/2 = 3$, and $8/3$ is not equal to 3. So the relationship is not proportional.
- 21) **The correct answer is 25.** (6.GM.2.3) Sum of five numbers = $25 \times 5 = 125$. Sum of four = $20 + 22 + 28 + 30 = 100$. Fifth number = $125 - 100 = 25$.
- 22) **The correct answer is Rectangles and triangles are polygons.** (6.GM.2.3) A is correct: a rectangle with vertices $(0, 0)$, $(4, 0)$, $(4, 3)$, $(0, 3)$ is a polygon on the coordinate plane. B is correct: a triangle with vertices $(1, 2)$, $(5, 2)$, and $(3, 6)$ is a polygon. C, D, and E are incorrect because circles, curves, and ellipses are not polygons—polygons must have only straight sides.
- 23) **Choice B is correct.** (6.GM.2.3) $\frac{1}{2} \div 8 = \frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$ cup per serving.
- 24) **Choice D is correct.** (6.D.1.2) $6,750 \div 25 = 270$. Check: $25 \times 270 = 6,750$.
- 25) **Choice A is correct.** (6.D.1.2) Subtract: $\$14.95 - \$0.75 = \$14.20$.
- 26) **Choice D is correct.** (6.D.1.1) This is an LCM problem. Multiples of 8: 8, 16, 24, ... Multiples of 12: 12, 24, ... Both buses are at the station together at 24 minutes.
- 27) **Choice A is correct.** (6.D.1.2) $8(5 + 3) = 8 \cdot 5 + 8 \cdot 3 = 40 + 24$. Choice B gives $8 + 8 = 16$, so it is not equivalent.
- 28) **Choice D is correct.** (6.N.4.4) A: $|-6| = 6$. B: opposite of -6 is 6. C: $|6| = 6$. D: opposite of 6 is -6 . Options A, B, C all equal 6; D equals -6 .



Hi, Math Champion!

◇ You trained hard! 10 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!
★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

PRACTICE MORE. ACHIEVE MORE. SUCCEED!

This **Grade 6 Math Practice Tests** book is designed to help students build strong math skills, deepen their understanding of key concepts, and gain the confidence they need to succeed on any test.

With 10 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, strengthen problem-solving abilities, and reach their full potential.

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

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence



**CONFIDENCE TODAY.
SUCCESS TOMORROW!**

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deepen Understanding

Reinforce key math concepts aligned with standards.



Test Confidence

Get familiar with test formats and improve accuracy.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

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



2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



10 PRINTED
PRACTICE TESTS



2 ONLINE
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DETAILED ANSWER
EXPLANATIONS