

9

Oklahoma OSTP

GRADE

6

MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key



9 PRINTED TESTS

Realistic practice to build confidence and mastery



DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



9 PRINTED TESTS
+2 ONLINE TESTS

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

PRACTICE TODAY.
SUCCEED TOMORROW.



PRACTICE



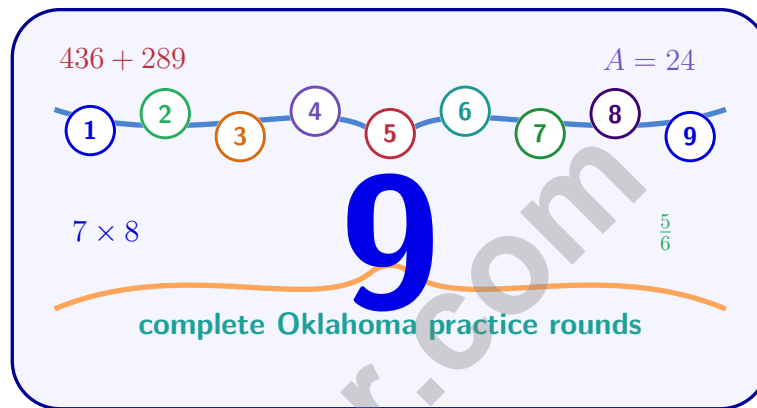
REVIEW



SUCCEED

9 Oklahoma OSTP Grade 6 Math Practice Tests

Standards-Aligned Plains-To-City Review Strength for Oklahoma School Testing Program



Nine complete 40-question Grade 6 practice rounds for OSTP, built for plains-to-city review strength 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!

Nine focused rounds using plains-to-city review strength

This book gives you nine full Grade 6 practice tests for OSTP. Each round uses red-dirt roads, open skies, and focused math steps 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

Stay grounded: list what you know, decide what is asked, and check the result.

Read

Plan

Check

How to Use This Book

A nine-session routine for plains-to-city review strength

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

Oklahoma review rhythm: Complete one test, correct with patience, and use the next round to strengthen weak spots.



What Is Inside?

Nine OSTP tests, 360 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation 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	Final stamina rounds 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. Plains-to-city review strength 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) The five-number summary of student test scores is: $\text{min} = 55$, $Q_1 = 70$, $\text{median} = 78$, $Q_3 = 85$, $\text{max} = 98$. How many points is the range?
- A. 15 C. 43
 B. 23 D. 78
- 2) A student uses a scale drawing where 1 inch = 4 feet. She measures a desk as 3 inches in the drawing. She says the actual desk is $\frac{3}{4}$ feet long. Which is the student's error?
- A. The units are wrong; she should say inches, not feet. C. She used the scale backward; the actual length is 12 inches.
 B. She divided instead of multiplied; the actual length is 12 feet. D. The measurement of 3 inches is wrong.
- 3) What is the prime factorization of 56?
- A. 2×28 C. 7×8
 B. $2^3 \times 7$ D. $2^2 \times 14$
- 4) A video game shows a player's score history. The player started at 0, gained 50 points, lost 35 points, and then gained 20 points. What is the final score?
- A. 85 points C. 70 points
 B. 35 points D. 50 points
- 5) Which list shows the numbers in order from least to greatest?
- A. $-3, -0.5, 1, 2.5$ C. $1, -0.5, 2.5, -3$
 B. $-0.5, -3, 2.5, 1$ D. $2.5, 1, -0.5, -3$



- 6) A ribbon is $\frac{5}{6}$ yard long. You need pieces that are $\frac{1}{6}$ yard long. How many pieces can you cut?
- A. 1 C. 5
 B. 4 D. 6
- 7) Mika used long division to solve $4,284 \div 22$ and got 194 remainder 16. Is Mika's answer correct?
- A. Yes, it is correct. C. No; the remainder is 14.
 B. No; the quotient is 195. D. No; the answer is 194 remainder 2.
- 8) Which shows $15 + 10$ factored using the GCF?
- A. $3(5 + 10)$ C. $2(8 + 5)$
 B. $5(3 + 2)$ D. $10(2 + 1)$
- 9) Which pair shows numbers with equal absolute values?
- A. -3 and -5 C. 4 and -5
 B. 2 and -2 D. -6 and -8
- 10) A car travels at a constant speed. After 3 hours, the car has traveled 165 miles. At this rate, how many miles will the car travel in 8 hours?



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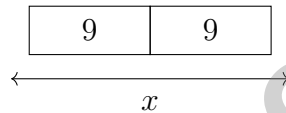
11) A debt of \$12 is split equally among 3 people. How much does each person owe?

- A. \$4 C. \$15
 B. \$9 D. -\$4

12) Which expression is equivalent to $6(3x - 1)$?

- A. $18x - 1$ C. $3x - 6$
 B. $9x - 1$ D. $18x - 6$

13) A bar model shows a number split into two equal parts. Each part is 9. Which equation and solution is correct?

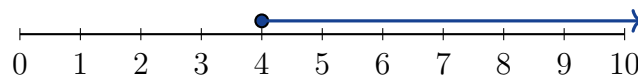


- A. $\frac{x}{2} = 9; x = 18$ C. $2x = 9; x = 4.5$
 B. $x + 2 = 9; x = 7$ D. $\frac{x}{2} = 9; x = 4.5$

14) A restaurant cannot serve meals that cost below \$5 (they lose money). Which inequality represents the minimum price p ?

- A. $p < 5$ C. $p \leq 5$
 B. $p \geq 5$ D. $p > 5$

15) Which graph shows the solution to $x \geq 4$?



- A. Open circle at 4, arrow right C. Open circle at 4, arrow left
 B. Closed circle at 4, arrow right D. Closed circle at 4, arrow left



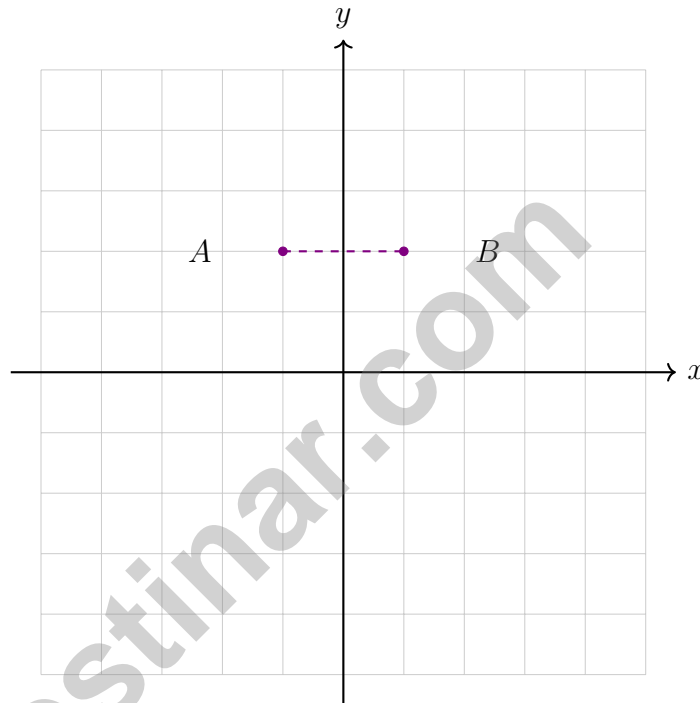
1) Convert $\frac{3}{4}$ to a percent.

A. 34%

C. 75%

B. 0.75%

D. 340%



2)

Points A and B are shown. Which transformation was applied to point A to get point B ?

A. Reflection across the x -axis

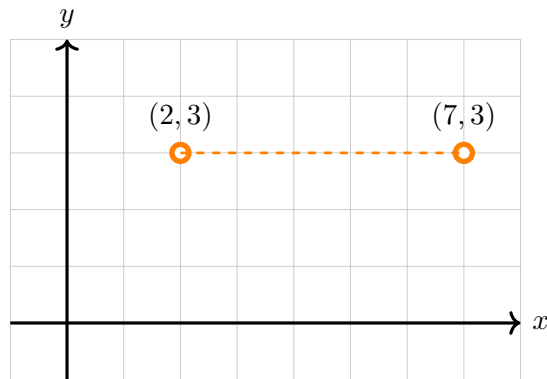
C. A translation to the right

B. Reflection across the y -axis

D. A rotation of 90 degrees



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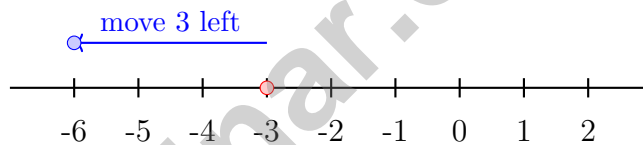


3)

What is the distance between $(2, 3)$ and $(7, 3)$?

- | | |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> A. 4 units | <input type="checkbox"/> C. 6 units |
| <input type="checkbox"/> B. 5 units | <input type="checkbox"/> D. 7 units |

4) Which statement correctly describes the number line model shown?



- | | |
|---|--|
| <input type="checkbox"/> A. Start at -3 , add 3, end at 0 | <input type="checkbox"/> C. Start at -3 , add 3, end at -6 |
| <input type="checkbox"/> B. Start at -3 , subtract 3, end at -6 | <input type="checkbox"/> D. Start at -3 , subtract 3, end at 0 |

5) What is the GCF of 9 and 12?

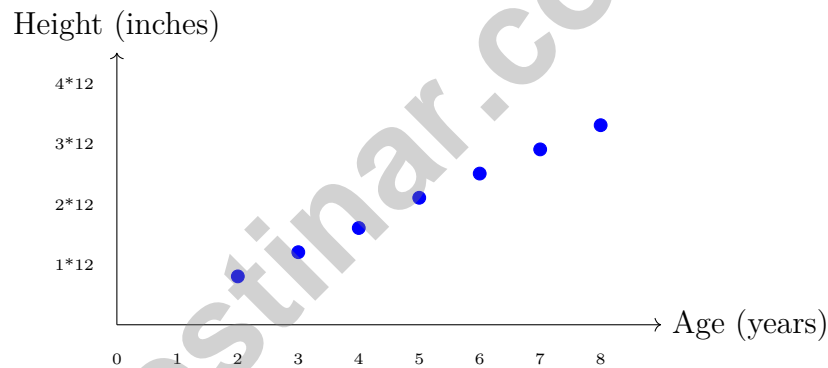
- | | |
|-------------------------------|-------------------------------|
| <input type="checkbox"/> A. 2 | <input type="checkbox"/> C. 4 |
| <input type="checkbox"/> B. 6 | <input type="checkbox"/> D. 3 |



1) The point $(5, -3)$ is located in which quadrant?

- | | |
|---|--|
| <input type="checkbox"/> A. Quadrant I | <input type="checkbox"/> C. Quadrant III |
| <input type="checkbox"/> B. Quadrant II | <input type="checkbox"/> D. Quadrant IV |

2) A dot plot displays test scores with the following data: 65, 70, 75, 75, 80, 80, 80, 85, 90, 95. What is the median score?



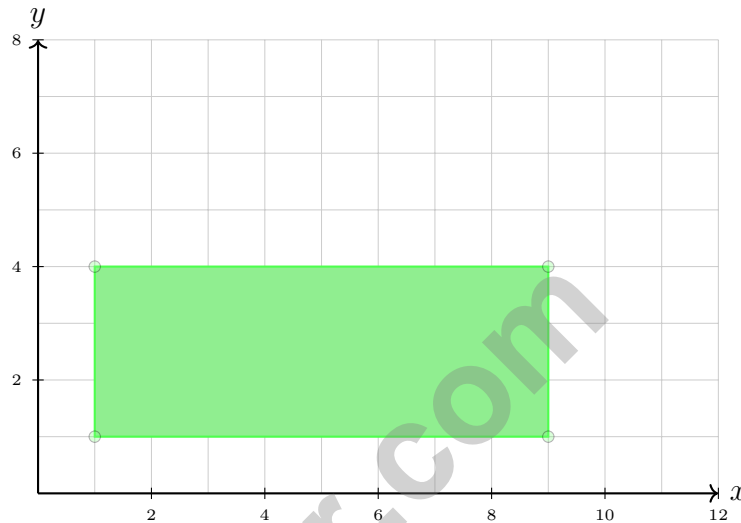
3)

This scatter plot shows the relationship between children's ages and heights. What type of correlation does the data show?

- | | |
|---|--|
| <input type="checkbox"/> A. Negative correlation | <input type="checkbox"/> C. No correlation |
| <input type="checkbox"/> B. Strong positive correlation | <input type="checkbox"/> D. Perfect negative correlation |

4) A quadrilateral has vertices at $(1, 1)$, $(7, 1)$, $(6, 4)$, and $(2, 4)$. Which sides are parallel?

- A. The top and bottom sides only. C. All four sides are parallel.
 B. The left and right sides only. D. No sides are parallel.



5)

A garden plot is rectangular with vertices at $(1, 1)$, $(9, 1)$, $(9, 4)$, and $(1, 4)$. What is the area of the garden?

- A. 18 square units C. 24 square units
 B. 21 square units D. 27 square units

6) A five-number summary is: $\text{min} = 6$, $Q_1 = 12$, $\text{median} = 18$, $Q_3 = 24$, $\text{max} = 32$. Calculate the IQR.



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& answers

Oklahoma OSTP Practice Test Answer Keys

How to use this Oklahoma OSTP 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 plains-to-city review strength
3. rework the problem before reading the full explanation, using this reminder:
Stay grounded: list what you know, decide what is asked, and check the result.

A calm Oklahoma correction routine turns every missed item into useful practice. Complete one test, correct with patience, and use the next round to strengthen weak spots.



Oklahoma Practice Test Answers and Explanations

Review the nine printed OSTP tests with grounded, determined, and ready for more practice habits.

Practice Test 1 Answers and Explanations

- Choice C is correct.** **(6.D.2.3)** Range = max – min = $98 - 55 = 43$ points.
- Choice B is correct.** **(6.N.3.1)** To find the actual length from a drawing length, multiply by the scale factor: 3 inches \times 4 feet per inch = 12 feet. The student divided ($3 \div 4 = \frac{3}{4}$) instead of multiplying.
- Choice B is correct.** **(6.N.2.6)** $56 = 8 \times 7 = (2 \times 2 \times 2) \times 7 = 2^3 \times 7$. Options A, C, and D contain composite factors.
- Choice B is correct.** **(6.N.1.1)** Starting at 0: $+50 - 35 + 20 = 35$ points.
- Choice A is correct.** **(6.N.4.2)** Ordering from smallest (most negative) to largest: $-3 < -0.5 < 1 < 2.5$.
- Choice C is correct.** **(6.N.4.2)** $\frac{5}{6} \div \frac{1}{6} = \frac{5}{6} \times 6 = 5$.
- Choice A is correct.** **(6.N.4.2)** Check by multiplying and adding the remainder: $22 \times 194 = 4,268$, and $4,268 + 16 = 4,284$. The remainder 16 is less than 22, so Mika's answer is correct.
- Choice B is correct.** **(6.N.2.6)** GCF of 15 and 10 is 5. Thus $15 + 10 = 5(3 + 2)$. Choice A uses factor 3 (not the greatest); Choice C uses 2 (not a common factor of both); Choice D uses 10 but yields 30, not 25.
- Choice B is correct.** **(6.A.3.2)** $|2| = 2$ and $|-2| = 2$. Numbers that are opposites have equal absolute values.
- The correct answer is 440.** **(6.N.3.3)** The unit rate is $\frac{165 \text{ miles}}{3 \text{ hours}} = 55$ miles per hour. For 8 hours: $8 \times 55 = 440$ miles.
- Choice D is correct.** **(6.N.4.2)** A debt of $-\$12$ divided equally among 3 people: $\frac{-12}{3} = -4$. Each person owes \$4 (represented as $-\$4$).
- Choice D is correct.** **(6.A.2.1)** Distribute: $6(3x - 1) = 6 \cdot 3x - 6 \cdot 1 = 18x - 6$.
- Choice A is correct.** **(6.A.1.3)** The number x is split into two equal parts of 9 each, so $\frac{x}{2} = 9$. Multiplying by 2 gives $x = 18$.
- Choice B is correct.** **(6.A.1.2)** "Cannot serve below \$5" means the price must be at least \$5: $p \geq 5$.
- Choice B is correct.** **(6.N.2.4)** $x \geq 4$ includes 4 (closed circle) and all numbers greater than 4 (arrow points right).
- Choice C is correct.** **(6.A.1.2)** The graph shows points (2.5, 5) and (5, 10). The slope is $\frac{10-5}{5-2.5} = \frac{5}{2.5} = 2$, so apples cost \$2 per pound.
- Choice D is correct.** **(6.GM.2.3)** $75 = \frac{1}{2} \times 15 \times h \Rightarrow h = 10$ cm.
- The correct answer is 37.5%.** **(6.N.1.3)** $\frac{3}{8} = 0.375$, and $0.375 \times 100 = 37.5\%$.
- The correct answer is $1.5 \times 2.4 = 3.6$ (two decimal places total) and $4.8 \div 0.4 = 12$ (shift both left by one place: $48 \div 4 = 12$).** **(6.N.2.3)** B is correct because $15 \times 24 = 360$ and the factors have two decimal places total, giving 3.6. D is correct because $4.8 \div 0.4 = 48 \div 4 = 12$. A, C, and E have incorrect decimal placement.
- Choice A is correct.** **(6.GM.2.3)** Area of trapezoid = $\frac{1}{2}(8 + 12) \times 6 = \frac{1}{2}(20)(6) = 60$ ft².
- Choice D is correct.** **(6.N.4.4)** $50 = L \times 2.5 \times 4 = L \times 10$, so $L = 5$ dm.
- Choice A is correct.** **(6.GM.2.3)** Length = $6 - 1 = 5$ units and width = $6 - 1 = 5$ units. Since all sides are equal, it is a square.
- Choice C is correct.** **(6.GM.2.2)** Area = $\pi r^2 \approx \frac{22}{7} \times 7^2 = \frac{22}{7} \times 49 = 22 \times 7 = 154$ m².
- Choice C is correct.** **(6.GM.1.2)** This is a statistical question requiring data collection because different students have different favorite colors. The other questions have single, fixed answers found through knowledge, not data collection.
- Choice D is correct.** **(6.D.1.1)** The bar for the 25–30 lb range has height 7, which is the smallest frequency.
- Choice D is correct.** **(6.N.4.4)** In a proper stem-and-leaf plot, leaves must be arranged in ascending order within each stem. The incorrect plot has unsorted leaves; the correct plot shows leaves in order.
- Choice C is correct.** **(6.A.1.1)** First reflect across the x -axis: $(a, b) \rightarrow (a, -b)$. Then reflect across the y -axis: $(a, -b) \rightarrow (-a, -b)$.



Hi, Math Champion!

◇ You trained hard! 9 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.

This **Grade 6 Math Practice Tests** book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on any test.

With 9 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop 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



**PRACTICE TODAY.
SUCCEED 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.



Deeper 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.



9 PRINTED
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS