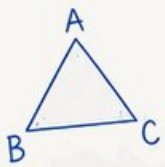
6 Oklahoma OSTP PRACTICE TESTS

GRADE 6 MATH

Standards-Aligned Steady Southern Problem Solving for Comprehensive Assessment Program

$2x + 3 = 11$



$7^2 = 49$

BUILD SKILLS. GAIN CONFIDENCE. SUCCEED!

6 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

6 PRINTED TESTS +2 ONLINE TESTS
Use these two additional online practice tests for extra review after the printed tests in this book.

PRACTICE
Sharpen skills with targeted practice tests

REVIEW
Understand concepts and strengthen skills

SUCCEED
Build confidence and achieve your best

6 Oklahoma OSTP Grade 6 Math Practice Tests

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

Six 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!

Eight focused rounds using plains-to-city review strength

This book gives you six 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.

How to Use This Book

A six-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?

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

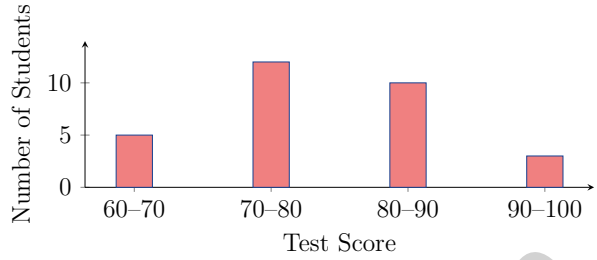
Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Plains-to-city review strength means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.

Table of Contents

★ Practice Test 1 ____ 14
★ Practice Test 2 ____ 29
★ Practice Test 3 ____ 45
★ Practice Test 4 ____ 60
★ Practice Test 5 ____ 75
★ Practice Test 6 ____ 91
Practice Test Answer Keys ____ 108
Practice Test Answers and Explanations ____ 112

1) A histogram groups student test scores into intervals of width 10: 60–70: 5 students; 70–80: 12 students; 80–90: 10 students; 90–100: 3 students. How many students scored below 80?



☐ A. 5 students
☐ B. 12 students
☐ C. 17 students
☐ D. 22 students

2) A baker has $2\frac{1}{4}$ pounds of flour. Each loaf of bread requires $\frac{3}{4}$ pound of flour. How many loaves can the baker make?

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

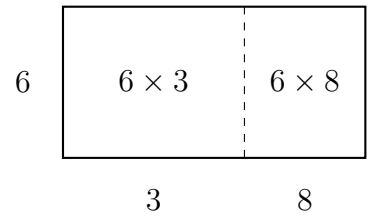
3) A bag of rice weighs 2.5 kg. If you buy three bags, what is the total weight?

☐ A. 5.5 kg
☐ B. 7.5 kg
☐ C. 6.5 kg
☐ D. 8.5 kg

4) Find the LCM of 10, 12, and 15.

☐ A. 30
☐ B. 60
☐ C. 120
☐ D. 180

5) An area model is shown below. Which factored expression does it represent?



☐ A. $6(3+8)=66$
☐ B. $3(6+8)=42$
☐ C. $(6+3)(6+8)=154$
☐ D. $6(3\times 8)=144$

6) The opposite of the opposite of 8 is:

☐ A. 8
☐ B. -8
☐ C. 0
☐ D. 16

7) A number line shows negative fractions. Point I is located at $-\frac{7}{10}$. Which statement is true?

☐ A. Point I is to the right of $-\frac{3}{5}$
☐ B. Point I is to the left of $-\frac{4}{5}$
☐ C. Point I is between $-\frac{3}{4}$ and $-\frac{2}{3}$
☐ D. Point I is at the same position as -0.6

8) Which ordered pair is located in Quadrant III?

☐ A. $(2,5)$
☐ B. $(-1,3)$
☐ C. $(-4,-2)$
☐ D. $(3,-6)$

9) A hiker starts at elevation 1,200 feet and climbs to 1,850 feet. What is the change in elevation?

☐ A. 650 feet
☐ B. -650 feet
☐ C. 3,050 feet
☐ D. 1,200 feet

10) What is $-6 \times (-4)$?

☐ A. -24
☐ B. -10
☐ C. 10
☐ D. 24

11) Jamal withdrew \$30 from his account twice. His account started with \$180. How much money does he have now?

☐ A. \$90
☐ B. \$120
☐ C. \$150
☐ D. \$210

12) Evaluate $5m - 7$ when $m = 2$.

☐ A. 3
☐ B. 6
☐ C. 10
☐ D. 17

13) Joel is y years old. His sister is 4 years older than Joel. Which expression represents the sister's age?

☐ A. $y - 4$
☐ B. $y + 4$
☐ C. $4y$
☐ D. $\frac{y}{4}$

14) Solve for x: $2.5x = 10$

☐ A. $x = 2.5$
☐ B. $x = 7.5$
☐ C. $x = 4$
☐ D. $x = 25$

15) After distributing $5(x + 6)$, what is the constant term?

1) Three rectangles on a coordinate plane have the following dimensions: Rectangle A is 4×5; Rectangle B is 2×10; Rectangle C is 3×7. Which two rectangles have equal areas?

☐ A. Rectangles A and B
☐ B. Rectangles B and C
☐ C. Rectangles A and C
☐ D. All three have different areas.

2) A histogram shows age distribution skewed left (tail on the left). Where is the mean relative to the median?

☐ A. The mean is less than the median.
☐ B. The mean equals the median.
☐ C. The mean is greater than the median.
☐ D. Cannot be determined.

3) A bag contains 3 red marbles, 5 blue marbles, and 2 green marbles. If one marble is drawn at random, what is the probability that it is blue?

☐ A. $\frac{1}{10}$
☐ B. $\frac{1}{5}$
☐ C. $\frac{1}{2}$
☐ D. $\frac{5}{8}$

4) A library surveyed 1000 patrons about book genre. The circle graph shows 18% prefer mystery. How many patrons prefer mystery?

☐ A. 160
☐ B. 140
☐ C. 180
☐ D. 200

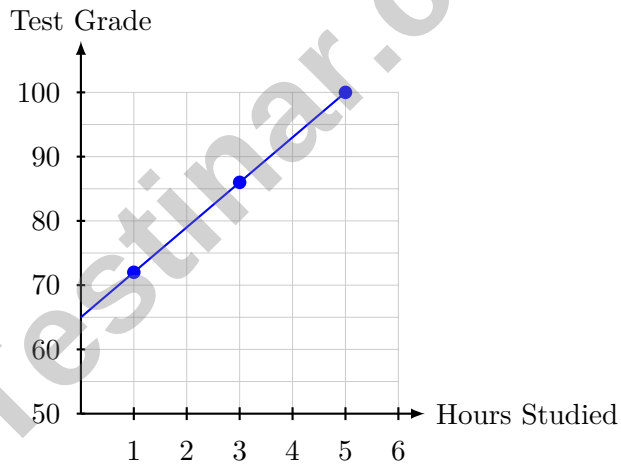
5) When displaying temperature data that varies seasonally throughout a year, which display would be LEAST effective?

☐ A. Line graph with months on x-axis
☐ B. Dot plot of all 365 daily temperatures
☐ C. Histogram grouping temperatures into ranges
☐ D. Bar graph with one bar per month

6) A baker uses 2 eggs for every 3 cups of flour. If the baker uses 6 cups of flour, how many eggs are needed?

☐ A. 6 eggs
☐ B. 8 eggs
☐ C. 4 eggs
☐ D. 9 eggs

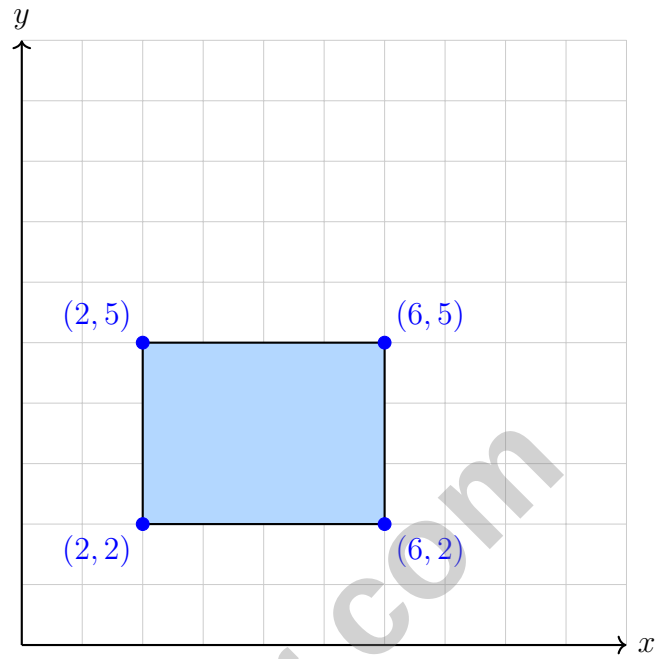
7) The graph shows the relationship between the number of hours a student studies and the grade received on a test.



Approximately how much does the test grade increase for each additional hour of study?

☐ A. 5 points per hour
☐ B. 7 points per hour
☐ C. 10 points per hour
☐ D. 12 points per hour

1)



What type of polygon is shown?

☐ A. Square
☐ B. Pentagon
☐ C. Trapezoid
☐ D. Rectangle

2) A store offers $\frac{1}{8}$ off the original price. What percent off is this?

☐ A. 8%
☐ B. 12.5%
☐ C. 18%
☐ D. 80%

3) A library organizes fiction and non-fiction books in a 9 : 11 ratio. The table shows the collection:

Fiction Books	Non-Fiction Books
9	11
18	22
?	33

☐ A. 25
☐ B. 36
☐ C. 30
☐ D. 27

4) A bike's price decreases from $250 to $200. What is the percent decrease?

☐ A. 15%
☐ B. 50%
☐ C. 25%
☐ D. 20%

5) A swimming pool charges $5 per person to enter. Complete the sentence: The relationship between the number of people and the total cost is proportional because...

☐ A. ...the cost stays $5 no matter how many people enter
☐ B. ...the ratio of cost to people is constant
☐ C. ...there is a one-time starting fee
☐ D. ...the cost stays the same as more people enter

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 six printed OSTP tests with grounded, determined, and ready for more practice habits.

Practice Test 1 Answers and Explanations

1) **Choice C is correct.** 6.D.1.1 Students scoring below 80 are in the 60–70 and 70–80 ranges: $5 + 12 = 17$ students.
2) **Choice B is correct.** 6.N.4.2 Dividend $2\frac{1}{4}$ becomes $\frac{9}{4}$. Flip $\frac{3}{4}$ to $\frac{4}{3}$, multiply: $\frac{9}{4} \times \frac{4}{3}$, and the fractions cancel cleanly to leave 3 whole loaves—no leftover dough for another full loaf.
3) **Choice B is correct.** 6.N.2.3 Multiply: $2.5 \times 3 = 7.5$ kg.
4) **Choice B is correct.** 6.N.2.6 Prime factors: $10 = 2 \times 5$, $12 = 2^2 \times 3$, $15 = 3 \times 5$. LCM uses each prime the greatest number of times: $2^2 \times 3 \times 5 = 60$.
5) **Choice A is correct.** 6.N.2.6 The rectangle shows a common factor of 6 with addends 3 and 8. The area is $6 \times 3 + 6 \times 8 = 18 + 48 = 66 = 6(3 + 8)$. Choice A is correct.
6) **Choice A is correct.** 6.A.3.2 Opposite of 8 is -8. Opposite of -8 is 8. Double opposites return to the original.
7) **Choice C is correct.** 6.N.4.2 In decimal form: $-\frac{7}{10} = -0.7$, $-\frac{3}{4} = -0.75$, $-\frac{2}{3} \approx -0.667$. So $-0.75 < -0.7 < -0.667$, placing -0.7 between these two values.
8) **Choice C is correct.** 6.A.1.1 Quadrant III contains points where both coordinates are negative. The point $(-4, -2)$ has negative x and negative y, so it is in Quadrant III.
9) **Choice A is correct.** 6.N.2.2 Change in elevation: $1{,}850 - 1{,}200 = 650$ feet.
10) **Choice D is correct.** 6.N.4.2 The product of two negatives is positive: $(-6) \times (-4) = 24$.
11) **Choice B is correct.** 6.A.1.2 Two withdrawals of \$30 each: $180 - 30 - 30 = 180 - 60 = \$120$.
12) **Choice A is correct.** 6.A.2.1 Substitute $m = 2$: $5(2) - 7 = 10 - 7 = 3$.
13) **Choice B is correct.** 6.A.1.3 "4 years older" means add 4 to Joel's age: $y + 4$.
14) **Choice C is correct.** 6.A.1.3 Divide both sides by 2.5: $x = 10 \div 2.5 = 4$.
15) **The correct answer is 30.** 6.A.2.1 $5(x + 6) = 5x + 30$, so the constant term is 30.
16) **Choice B is correct.** 6.A.1.2 "Fewer than" means strictly less than: $i < 20$.
17) **Choice A is correct.** 6.N.2.4 $x \leq -2$ includes -2 itself (closed circle) plus all values less than -2 (arrow points left).
18) **Choice D is correct.** 6.GM.2.3 The left side goes from $(2, 3)$ to $(2, 7)$. Length $= 7 - 3 = 4$ units.
19) **Choice B is correct.** 6.GM.2.3 Width: $8 - 3 = 5$ units. Height: $8 - 3 = 5$ units. Area $= 5 \times 5 = 25$ square units.
20) **Choice B is correct.** 6.GM.2.2 The diameter passes through the center and is $d = 2r$. Choices A and C are incorrect; choice D reverses the relationship.
21) **The correct answer is Food and Transportation are correctly calculated..** 6.N.2.4 A: Housing is $35\% \times 2000 =$ \$700, not \$800. Incorrect. B: Food is $25\% \times 2000 =$ \$500. Correct. C: Utilities is $12\% \times 2000 =$ \$240, not \$260. Incorrect. D: Transportation is $10\% \times 2000 =$ \$200. Correct. E: Other is $18\% \times 2000 =$ \$360, not \$450. Incorrect.
22) **Choice C is correct.** 6.D.1.2 Since mean < median, the distribution is left-skewed; low outliers pull the mean below the median.
23) **Choice D is correct.** 6.D.1.1 The data is $5, 5, 5, 5, 7, 7, 11$. Maximum $= 11$, minimum $= 5$. Range $= 11 - 5 = 6$.
24) **The correct answer is 24.** 6.GM.2.3 Solving: $84 = \frac{1}{2} \times b \times 7 \Rightarrow b = 24$ m.
25) **Choice C is correct.** 6.D.2.3 Both have the same median (center), but Dataset Y has a larger IQR (20 vs 10), indicating greater spread and variability.
26) **Choice A is correct.** 6.D.1.2 For symmetric distributions, mean and median are nearly equal and both represent the center well.
27) **Choice B is correct.** 6.N.1.4 If $P(\text{on time}) = 65\% = 0.65$, then $P(\text{late}) = 1 - 0.65 = 0.35$ or 35%.
28) **Choice A is correct.** 6.N.4.4 42% of 360° is $0.42 \times 360° = 151.2°$.

Author's Note

From Your Math Family

Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 6 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 TODAY. SUCCEED TOMORROW!

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 comprehensive assessments.

With 6 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.

6 PRINTED TESTS

+

2 ONLINE TESTS

PERFECT FOR:

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

BUILD SKILLS. GAIN CONFIDENCE. SUCCEED!

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 concepts aligned with standards through meaningful practice.

Test Confidence
Become familiar with test formats and improve accuracy and speed.

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.

6 FULL-LENGTH PRINTED TESTS

2 ONLINE PRACTICE TESTS

DETAILED ANSWER EXPLANATIONS