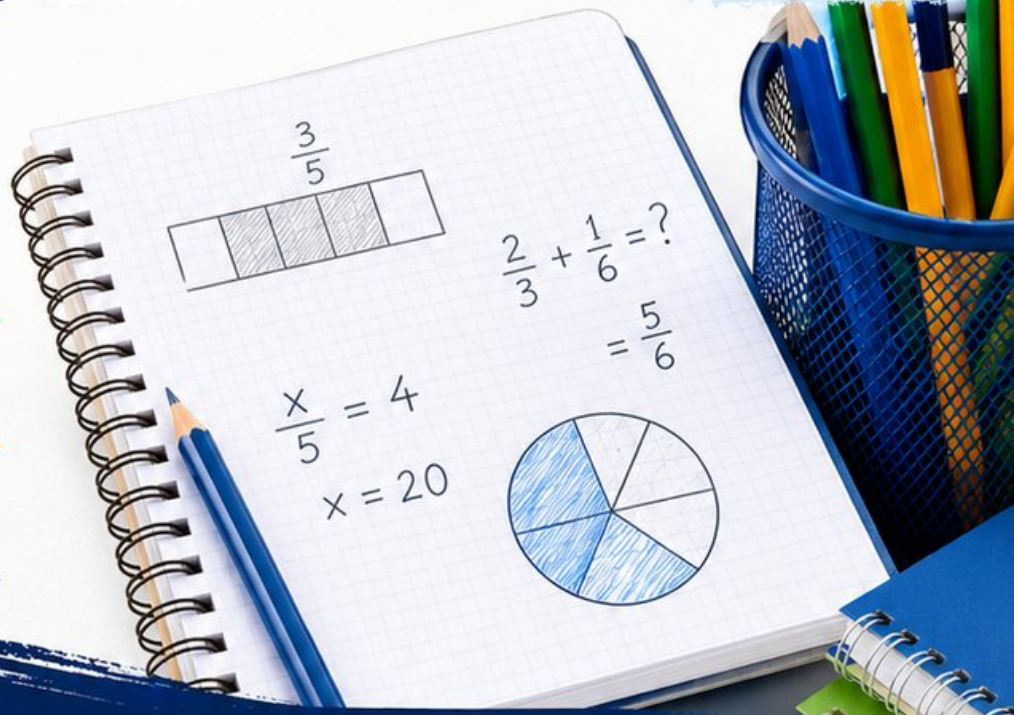
7 Oklahoma OSTP Grade 6 MATH PRACTICE TESTS

7 PRINTED TESTS + 2 ONLINE TESTS

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

Standards-Aligned *Steady Southern* Problem Solving for Comprehensive Assessment Program

- 7 Full-Length Printed Tests
- Standards-Aligned Math Practice
- Detailed Answer Keys and Explanations
- Build Confidence. Achieve Success.



You've Got This!

PREPARE PRACTICE SUCCEED | PRACTICE WITH PURPOSE | STRENGTHEN MATH SKILLS | REVIEW, IMPROVE, AND SUCCEED

7 Oklahoma OSTP Grade 6 Math Practice Tests

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

Seven 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.

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Welcome, Oklahoma Math Explorer!

Eight focused rounds using plains-to-city review strength

This book gives you seven 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 seven-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 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 7	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

1) Simplify $4a + 3b + 2a - b$.

☐ A. $6a + 2b$
☐ B. $9ab$
☐ C. $6a + 4b$
☐ D. $7a + 2b$

2) A restaurant has 24 square tables and 36 round tables. If they want to arrange them into equal groups with no tables left over, what is the greatest number of groups they can make?

3) Solve for x: $\frac{x}{2.5} = 6$

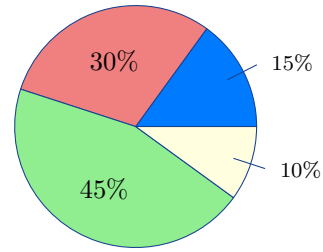
☐ A. $x = 2.4$
☐ B. $x = 8.5$
☐ C. $x = 15$
☐ D. $x = 3.6$

4) A dot plot shows: $\{5, 8, 12, 15, 18, 22, 28\}$. Identify the shape.

☐ A. Symmetric
☐ B. Skewed left
☐ C. Skewed right
☐ D. Bimodal

5) The probability that a randomly selected student in a class plays soccer is $\frac{2}{3}$. If there are 24 students in the class, how many play soccer?

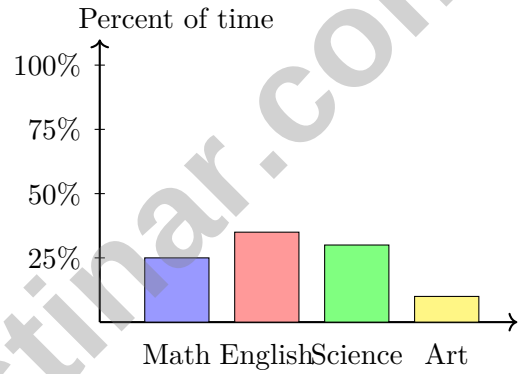
☐ A. 8
☐ B. 12
☐ C. 16
☐ D. 18



6)

A circle graph with 600 total items has sections of 15%, 30%, 45%, and 10%. Which is the second-largest section by count?

☐ A. The 30% section with 180 items.
☐ B. The 15% section with 90 items.
☐ C. The 10% section with 60 items.
☐ D. The 45% and 30% sections equally.



7)

The bar graph shows how a student spent 20 hours studying different subjects, by percent of total time. How many hours were spent on Science?

☐ A. 6 hours
☐ B. 4 hours
☐ C. 5 hours
☐ D. 8 hours

8) If $|x| = 25$, list both possible values of x.

9) On a number line from 0 to 3 divided into tenths, point P is at 1.4 and point Q is at 2.8. What is the distance between points P and Q?

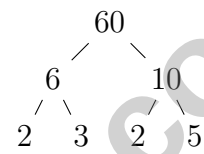
10) If 60 out of 200 students walk to school, what percent walk?

☐ A. 6%
☐ B. 20%
☐ C. 30%
☐ D. 60%

1) 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?

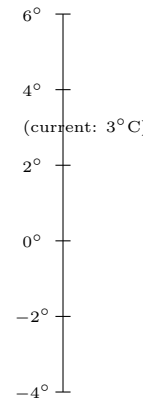
☐ A. Week 1 has a higher MAD.
☐ B. Week 2 has a higher MAD.
☐ C. Both weeks have the same MAD.
☐ D. Cannot be determined without calculation.

2) Using a factor tree, the prime factorization of 60 is:



☐ A. $2^2 \times 3 \times 5$
☐ B. $2 \times 3 \times 5$
☐ C. $2 \times 3 \times 10$
☐ D. $2^3 \times 3$

3) A thermometer shows the temperature is 3°C. Which temperature is 7°C colder?



☐ A. 10°C
☐ B. −2°C
☐ C. 0°C
☐ D. −4°C

4) The distance between points $(4, 5)$ and $(4, y)$ is 7 units. The points have the same x-coordinate. What could y be?

☐ A. $y = -3$ or $y = 12$
☐ B. $y = -2$ or $y = 12$
☐ C. $y = -1$ or $y = 11$
☐ D. $y = 0$ or $y = 10$

5) A company's revenue was $\$500,000$ last year. This year, revenue increased by $\$75,000$. What is the percent increase?

☐ A. 10%
☐ B. 20%
☐ C. 15%
☐ D. 25%

6) A snack mix uses raisins and pretzels in the ratio $3 : 5$. If you use 15 cups of raisins, how many cups of pretzels should you use?

7) A smoothie recipe uses strawberries and bananas in a $5 : 3$ ratio. If the recipe calls for 15 strawberries, how many bananas should be added?

1) Which table shows correct values for the expression $y = 2x - 1$?

	$x = 1$	$x = 2$	$x = 3$	$x = 4$
A:	0	3	5	7
B:	1	3	5	7
C:	2	4	6	8
D:	3	5	7	9

2) A stem-and-leaf plot for test scores has the shape:

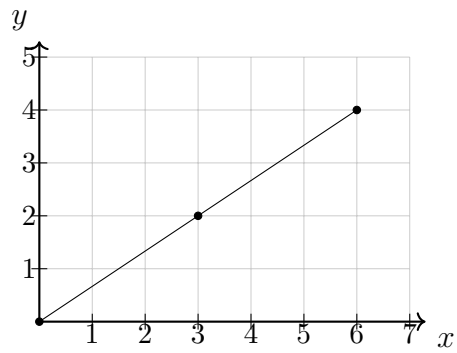
Stem	Leaf
8	
9	0, 1, 2, 3, 4, 5, 6, 7, 8, 9

What can you infer from this plot?

☐ A. Most scores are in the 90s
☐ B. The mode is 95
☐ C. There are no scores in the 80s
☐ D. The range is 10

3) A right triangle has legs of 11 inches and 18 inches. Calculate the area of the triangle.

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



☐ A. $(2, 4)$
☐ B. $(3, 3)$
☐ C. $(6, 4)$
☐ D. $(6, 9)$

5) A trapezoid has an area of 80 sq ft, one base of 14 ft, and a height of 10 ft. What is the length of the other base?

6) A parent makes a monthly budget error: they allocate \$400 to entertainment (thinking it is 20% of \$2000 income), but it should actually be 15%. What is the correct amount for entertainment?

☐ A. \$200
☐ B. \$250
☐ C. \$300
☐ D. \$350

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

Practice Test 1 Answers and Explanations

1) **Choice A is correct.** 6.A.2.1 Combine like terms: $(4a + 2a) + (3b - b) = 6a + 2b$.
2) **The correct answer is** 12. 6.N.2.6 Count how many complete groups share both table types: GCF$(24, 36) = 12$, so 12 clusters with 2 square and 3 round tables each feels neat and fair.
3) **Choice C is correct.** 6.A.1.3 Multiply both sides by 2.5: $x = 6 \times 2.5 = 15$.
4) **Choice C is correct.** 6.D.1.2 The spacing increases toward the right (gaps: $3, 4, 3, 3, 4, 6$), with a longer tail on the right side.
5) **Choice C is correct.** 6.N.1.4 Number of soccer players $= \frac{2}{3} \times 24 = 16$.
6) **Choice A is correct.** 6.N.4.4 The 45% section is largest (270 items), and the 30% section is second-largest ($0.30 \times 600 = 180$ items).
7) **Choice A is correct.** 6.A.1.2 Science takes up 30% of the bar (1.2 out of 4 units), which is $0.3 \times 20 = 6$ hours.
8) **The correct answer is** $-25, 25$. 6.A.3.2 Both $|-25| = 25$ and $|25| = 25$.
9) **The correct answer is** 1.4. 6.N.4.2 Distance $= 2.8 - 1.4 = 1.4$ units.
10) **Choice C is correct.** 6.N.1.3 $\frac{60}{200} = \frac{30}{100} = 30\%$ (divide both by 2).
11) **Choice D is correct.** 6.GM.2.3 Side length: $8 - 2 = 6$ units. Area of square $= 6^2 = 36$ square units.
12) **Choice B is correct.** 6.GM.1.2 Reflections preserve size and shape but change position and possibly orientation.
13) **Choice B is correct.** 6.GM.1.2 This has a single fixed answer: 2. The other questions all involve variability and require collecting data from multiple sources or people.
14) **Choice C is correct.** 6.D.1.2 The value 50 is far separated from the other values, which cluster between 5 and 12. It is an outlier that would affect the mean significantly.
15) **Choice C is correct.** 6.D.1.1 The data peaks around 2 siblings and has a longer tail extending to the left (toward 0 siblings). This is a left-skewed distribution.
16) **Choice B is correct.** 6.N.4.4 Values range from 24 to 35, covering stem 2 (20s: 24, 26, 28, 29) and stem 3 (30s: 31, 32, 35).
17) **Choice C is correct.** 6.N.2.2 Subtracting a negative is the same as adding its opposite: $0 - (-9) = 0 + 9 = 9$.
18) **Choice A is correct.** 6.N.4.2 Positive times negative gives negative (-54); negative times negative gives positive (64).
19) **Choice B is correct.** 6.A.1.2 Final temperature: $32 + (-5) + (+8) + (-6) = 32 - 5 + 8 - 6 = 29°$ F.
20) **Choice B is correct.** 6.A.2.1 Substitute: $\frac{1}{2}(10) + \frac{1}{3}(12) = 5 + 4 = 9$.
21) **Choice C is correct.** 6.A.1.3 "2 times the flour" means multiply c by 2.
22) **The correct answer is GCF of** 16 **and** 24 **is** 8**; prime factorization of** 40 **is** $2^3 \times 5$**.** 6.N.2.6 Statement A: Factors of 16 are $1, 2, 4, 8, 16$ and factors of 24 are $1, 2, 3, 4, 6, 8, 12, 24$; the GCF is 8 (TRUE). Statement B: LCM of 5 and 7 is 35, not 12 (FALSE). Statement C: $40 = 8 \times 5 = 2^3 \times 5$ (TRUE). Statement D is missing factor 10. Statement E is false because the LCM of 6 and 10 is 30.
23) **Choice D is correct.** 6.N.4.3 The ratio is 4 : 5. When roses are 16 (multiply by 4), tulips are $5 \times 4 = 20$.
24) **Choice B is correct.** 6.N.4.1 $8\% \times \$500 = 0.08 \times 500 = \$40$.
25) **Choice B is correct.** 6.A.1.2 The ratio cost/notebooks $= 3/1 = 6/2 = 9/3 = 12/4 = 3$. The constant ratio confirms proportionality, and the equation is $c = 3n$.
26) **Choice A is correct.** 6.N.2.4 Total expenses: $\$1200 + \$500 = \$1700$. Remaining: $\$2000 - \$1700 = \$300$.
27) **The correct answer is** 1. 6.A.1.1 Quadrant IV has positive x-values and negative y-values, so one coordinate is negative.

Hi, Curious Scientist!

◇ 7 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

MASTER 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 7 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.

7 PRINTED TESTS

+

2 ONLINE TESTS

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 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.

7 FULL-LENGTH PRINTED TESTS

STANDARDS-ALIGNED PRACTICE

DETAILED ANSWER KEYS & EXPLANATIONS