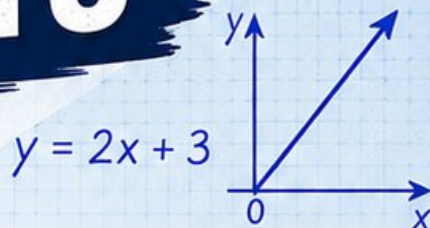


3 Oklahoma OSTP

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

3 Oklahoma OSTP Grade 6 Math Practice Tests

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



Three 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!

Three focused rounds using plains-to-city review strength

This book gives you three 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 three-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?

Three OSTP 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. 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

Table of Contents

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Practice Test Answers and Explanations	_____	68

1) What is the coefficient of x in the expression $-4x + 9 + 2y$?

A. 4

C. 9

B. 2

D. -4

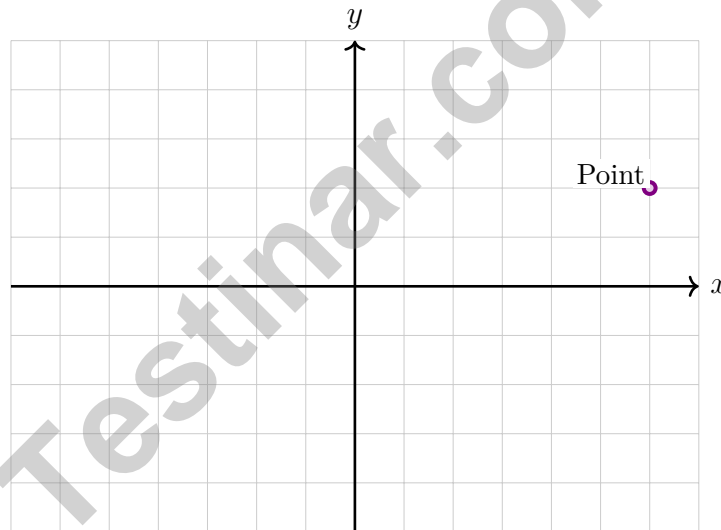
2) Triangle X has base 12 inches and height 5 inches. Triangle Y has base 5 inches and height 12 inches. Which statement is correct?

A. Triangle X has a larger area.

D. Cannot be determined from the information given.

B. Triangle Y has a larger area.

C. They have the same area.



3)

A point $(6, 2)$ is reflected over the y -axis. Where does the image point appear?

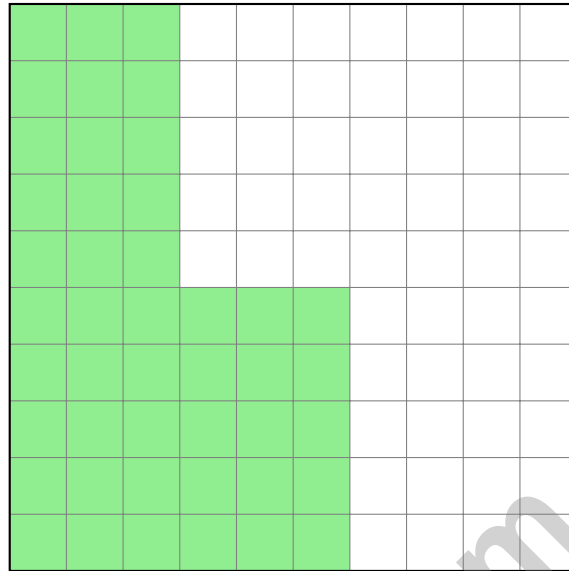
A. $(-6, 2)$

C. $(-6, -2)$

B. $(6, -2)$

D. $(6, 2)$





7)

What percent of the grid is shaded?

- A. 35%
- B. 45%
- C. 55%
- D. 65%

8) A game costs \$60. During a sale, it is discounted by 35%. What is the sale price?

- A. \$21
- B. \$25
- C. \$39
- D. \$45

9) A model train is built at a scale of 1 : 50. If the model is 8 inches long, how many inches long is the real train?

- A. 200
- B. 300
- C. 400
- D. 500

1) What is $5,832 \div 27$?

A. 216

C. 220

B. 210

D. 225

2) A rectangular prism's net shows a 4×6 rectangle surrounded by four 1×6 rectangles and two 1×4 rectangles. What are the dimensions of the prism?

A. $1 \times 4 \times 6$

C. $4 \times 6 \times 8$

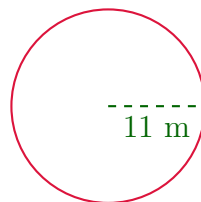
B. $2 \times 4 \times 6$

D. $4 \times 4 \times 6$

3) A parallelogram has an area of 96 m^2 and a height of 12 m . What is the length of the base?



Large Circle



4)

A large circle has a radius of 11 meters. Using $\pi \approx \frac{22}{7}$, what is the approximate area?

A. 242 m^2

C. 486 m^2

B. 380 m^2

D. 770 m^2



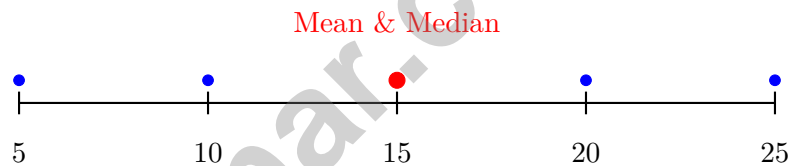
5) What is the difference between the population and the sample?

- A. The population is smaller than the sample.
- B. The population is the entire group being studied; the sample is a subset that is surveyed.
- C. The population is the number of people; the sample is the data.
- D. There is no difference.

6) A store manager wants to know the “typical” shoe size sold. Which measure of center would be most useful?

- A. Mean
- B. Median
- C. Mode
- D. Range

7) Find the mean of the 5 values shown. Which also equals the median?



- A. 10
- B. 25
- C. 20
- D. 15

8) What is the range of the data set 15, 22, 9, 30, 18?

- A. 21
- B. 18
- C. 9
- D. 30

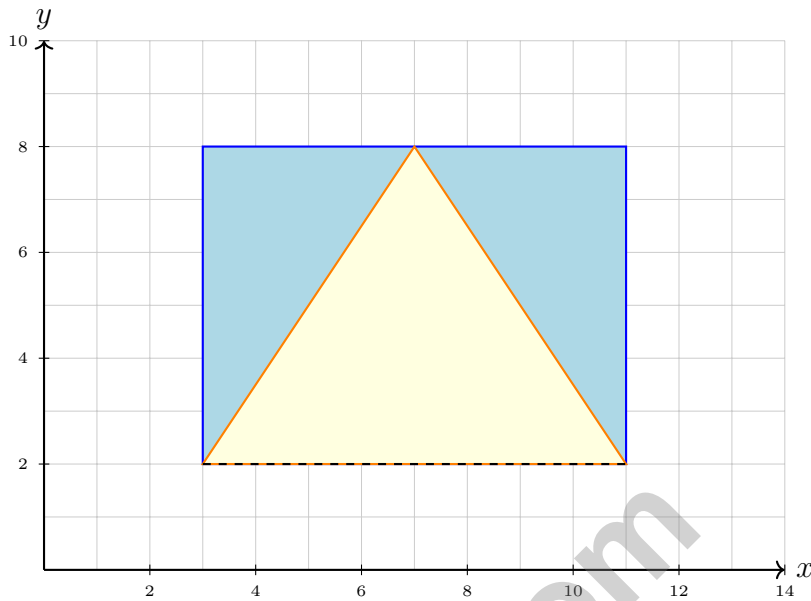


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- 1) A parallelogram has a base of 12 cm and an area of 60 cm^2 . What is its height?
- A. 3 cm C. 6 cm
 B. 8 cm D. 5 cm
- 2) A plant grows 3 cm per week. If w is the number of weeks and h is the height in centimeters, write the equation.
- A. $h = 3w + 3$ C. $w = 3h$
 B. $h = 3w$ D. $h = w + 3$
- 3) A rectangular prism has volume 60 in^3 , length 5 in, and height 3 in. What is its width?
- A. 2 in C. 4 in
 B. 3 in D. 5 in
- 4) What is the area of a rectangle with length 9 units and width 6 units?
- A. 30 square units C. 60 square units
 B. 45 square units D. 54 square units



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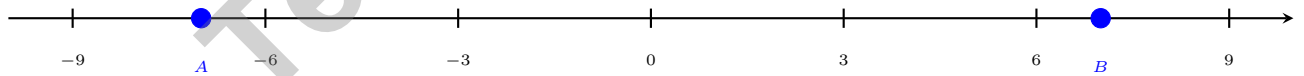


5)

A composite figure consists of a rectangle and a triangle. The rectangle has vertices at $(3, 2)$, $(11, 2)$, $(11, 8)$, and $(3, 8)$. The triangle sits on top with vertices at $(3, 8)$, $(11, 8)$, and $(7, 12)$ (height extends to 12). What is the total area? (Note: Triangle height is 4 units above the rectangle.)

- A. 48 square units
- B. 52 square units
- C. 64 square units
- D. 60 square units

6)



On a number line, point A is at -7 and point B is at 7 . What is the distance between them?

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.



Scan me!
For more practice
& answers

Oklahoma Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- Choice D is correct.** **(6.N.1.3)** The coefficient includes the sign. Since the term is $-4x$, the coefficient is -4 , not 4 .
- Choice C is correct.** **(6.GM.2.3)** Triangle X: $A = \frac{1}{2} \times 12 \times 5 = 30 \text{ in}^2$. Triangle Y: $A = \frac{1}{2} \times 5 \times 12 = 30 \text{ in}^2$. Both equal 30 in^2 .
- Choice A is correct.** **(6.GM.1.2)** Reflection over the y -axis changes the sign of the x -coordinate: $(6, 2) \rightarrow (-6, 2)$.
- Choice D is correct.** **(6.N.4.4)** With 9 data points (odd), the median is the middle value (5th). If the median is 58, then the 5th value is 58.
- The correct answer is 30.** **(6.A.3.1)** 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 B is correct.** **(6.N.3.3)** Using the point $(2, 1)$: unit rate = $1 \div 2 = 0.5$ points per minute. Or from $(10, 5)$: unit rate = $5 \div 10 = 0.5$ points per minute.
- Choice B is correct.** **(6.N.1.3)** Shaded: $3 \times 10 + 3 \times 5 = 30 + 15 = 45$ squares out of $100 = 45\%$.
- Choice C is correct.** **(6.N.4.1)** 35% of $\$60 = 0.35 \times 60 = \21 . Sale price is $\$60 - \$21 = \$39$.
- Choice C is correct.** **(6.N.1.1)** At a scale of $1 : 50$, the real object is 50 times larger. $8 \times 50 = 400$ inches.
- Choice D is correct.** **(6.N.4.2)** After 4 days: $5 \times 4 = 20$ mL taken. Remaining: $30 - 20 = 10$ mL. Convert: $10 \div 1000 = 0.01$ liters.
- Choice B is correct.** **(6.GM.2.1)** Discount amount: 25% of $\$80 = 0.25 \times 80 = \20 . Sale price: $\$80 - \$20 = \$60$.
- Choice A is correct.** **(6.A.1.2)** Option A has a constant m/y ratio: $0.9/1 = 1.8/2 = 2.7/3 = 0.9$. Option B does not: $0.8/1 = 0.8$, $1.7/2 = 0.85$, and $2.5/3 \approx 0.83$.
- Choice C is correct.** **(6.N.2.4)** Savings are 25% of $\$250$: $0.25 \times 250 = \$62.50$.
- Choice C is correct.** **(6.N.3.1)** Multiply: $5 \times 2 = 10$ feet.
- Choice D is correct.** **(6.N.4.2)** $\frac{10}{11} \times \frac{11}{2} = \frac{110}{22} = 5$.
- The correct answer is 55 miles per hour.** **(6.GM.2.3)** Divide miles by hours: $55 \div 1 = 55$ miles per hour (or $165 \div 3 = 55$).
- The correct answer is 12 gal/min.** **(6.N.3.2)** $144 \div 12 = 12$ gallons per minute.
- Choice A is correct.** **(6.N.4.2)** Use long division or estimation: $24 \times 50 = 1,200$, leaving 48. Then $48 \div 24 = 2$, so $1,248 \div 24 = 52$.
- Choice B is correct.** **(6.N.2.3)** Add: $0.75 + 1.40 + 2.10 = 4.25$. Align all decimal points first.
- Choice C is correct.** **(6.N.2.6)** This is an LCM problem. Prime factors: $15 = 3 \times 5$, $25 = 5^2$. $\text{LCM} = 3 \times 5^2 = 75$ minutes. 75 minutes after noon is 1 : 15 PM.
- Choice A is correct.** **(6.N.2.6)** If $9(2 + 7) = 9 \cdot 2 + 9 \cdot 7 = 18 + 63$, then the missing factor is 9.
- The correct answer is $4 : 6 = 2 : 3$ (dividing by 2) and $4 : 6 = 8 : 12$ (multiplying by 2).** **(6.N.3.1)** Nice checking: Choice A works because $4 : 6$ simplifies to $2 : 3$, and Choice B works because multiplying both parts of $4 : 6$ by 2 gives $8 : 12$. The other choices change the relationship.
- Choice C is correct.** **(6.N.1.1)** Negative integers represent values below zero, losses, or downward directions. Swimming down 5 meters below the surface is represented by -5 meters.
- Choice D is correct.** **(6.A.3.2)** $|-1| = 1$ and $|1| = 1$, so $1 + 1 = 2$.
- Choice C is correct.** **(6.N.4.2)** $\frac{2}{5} = \frac{4}{10} = 0.4$, so $-\frac{2}{5} = -0.4$.
- Choice C is correct.** **(6.A.1.1)** To go from $(3, 4)$ to $(-3, -4)$, both the x -coordinate sign and y -coordinate sign must change. This requires reflection across both the x -axis and y -axis.
- Choice C is correct.** **(6.N.1.1)** The distance from -0.3 to 0 is 0.3 units, which is smaller than the distances of the other numbers.



Hi, Strong Climber!

◇ You climbed all 3 tests. One step at a time. That takes patience and grit. The view from the top is amazing because you earned it! ◇

★ **Mountain guides say:** steady steps win the climb. You climbed steady. You stayed strong. ★

Climber's Skills

- **Strong Steps:** You move forward, problem by problem.
- **Steady Pace:** You don't rush. You don't stop.
- **Map Skills:** You read questions carefully.
- **Top of the Mountain:** You can finish a long test.

Guide's tip: on test day, take small breaths between problems. One foot, then the next. You'll reach the top!

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

Jay Daie

Your Math Trail Guide

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
 - 2 Online Practice Tests
-  Detailed Answer Explanations

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

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Better Problem Solving

Develop logical thinking and effective solution strategies.



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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.

TOPICS COVERED

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



2 ONLINE TESTS

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



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