

# 8

# Oklahoma OSTP

## GRADE 6

# MATH

# PRACTICE TESTS

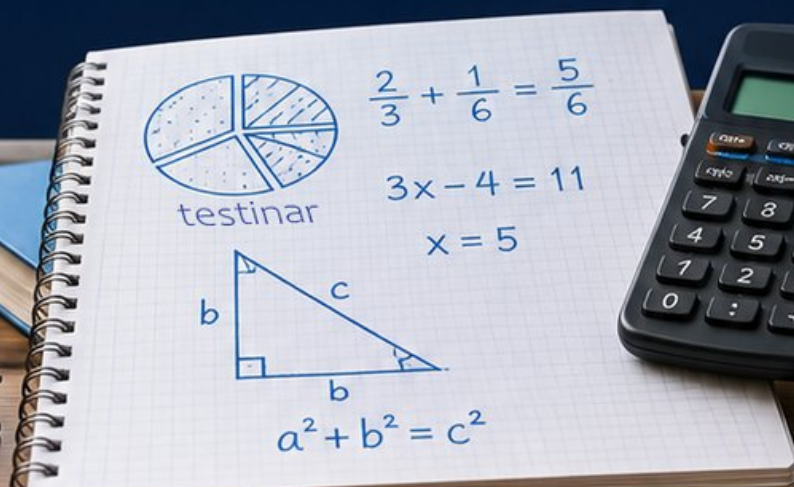
8  
PRINTED  
TESTS

+

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



BUILT FOR  
ACAP SUCCESS



REALISTIC TESTS  
& QUESTION TYPES



STRENGTHEN  
MATH SKILLS



REVIEW, PRACTICE,  
AND IMPROVE

# 8 Oklahoma OSTP Grade 6 Math Practice Tests

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



Eight 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 eight 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 eight-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.
Tests 7–8	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.

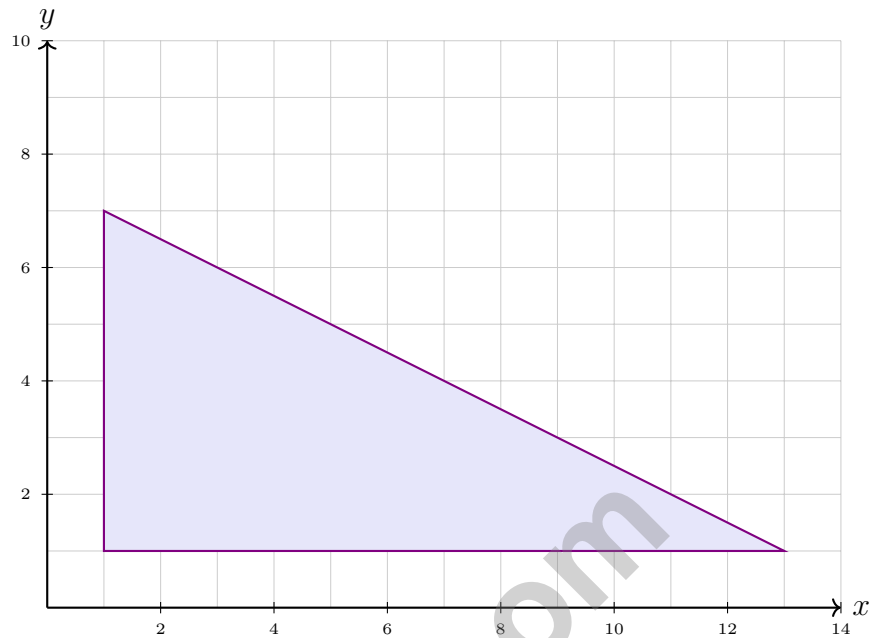


Scan me!  
For more practice  
& answers

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5)

A right triangle has vertices at  $(1, 1)$ ,  $(13, 1)$ , and  $(1, 7)$ . What is its area in square units?

- A. 36 square units                       C. 44 square units  
 B. 40 square units                       D. 48 square units

6) A researcher plots reaction times (in milliseconds) for 11 participants:

Stem	Leaf
20	2, 5, 7
21	1, 3, 6, 8
22	0, 4, 6, 9

What is the median reaction time?

- A. 213 ms                                       C. 218 ms  
 B. 216 ms                                       D. 220 ms



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7) Factor  $8 + 12$  using the GCF.

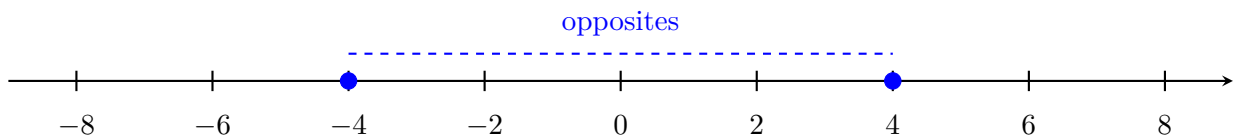
A.  $2(4 + 6)$

C.  $3(2.67 + 4)$

B.  $4(2 + 3)$

D.  $8(1 + 1.5)$

8)



Which pair of numbers are opposites?

A. 3 and  $\frac{1}{3}$

C. 6 and 12

B.  $-4$  and 4

D.  $-2$  and  $-2$

9) Which number is located at the position labeled as  $-1.2$  on a number line?

A.  $-\frac{6}{5}$

C.  $-1$

B.  $-\frac{5}{4}$

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

10) Which point is in Quadrant IV but closest to Quadrant III?

A.  $(2, -1)$

C.  $(1, -5)$

B.  $(5, -4)$

D.  $(6, -2)$

11) What is the sign of the product  $(-1) \times (-1) \times (-1)$ ?

 A. Positive

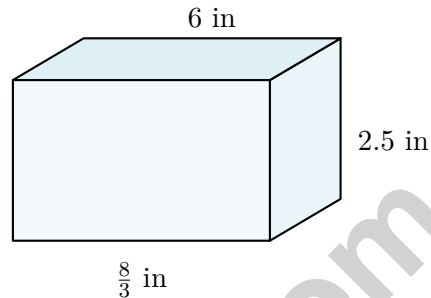
 C. Zero

 B. Cannot be determined

 D. Negative




- 4) The wait times are 8, 12, 15, 18, 22, 25, 19, 14. How many modes are there?



5)

Find the volume of the prism.

- A.  $20 \text{ in}^3$                        C.  $40 \text{ in}^3$   
 B.  $30 \text{ in}^3$                        D.  $60 \text{ in}^3$
- 6) Two adjacent sides of a rectangle are on the lines  $x = 2$  and  $y = 5$ . One vertex is at  $(2, 5)$ . Another is at  $(6, 5)$ . Where is a third vertex?
- A.  $(2, 2)$                        C.  $(2, 9)$   
 B.  $(6, 8)$                        D.  $(6, 2)$



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& answers

1) Solve for  $x$ :  $\frac{x}{7} = 4$

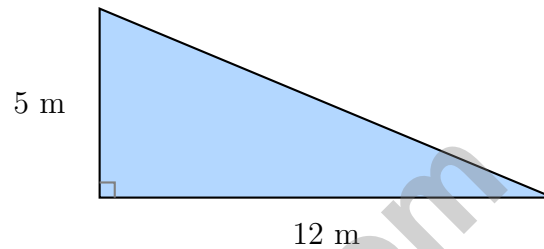
A.  $x = 1.75$

C.  $x = 28$

B.  $x = 11$

D.  $x = 3$

2) A right triangle has legs of length 5 m and 12 m. What is its area?



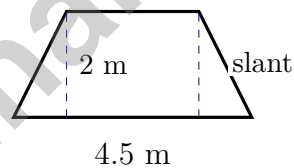
A.  $17 \text{ m}^2$

C.  $60 \text{ m}^2$

B.  $30 \text{ m}^2$

D.  $120 \text{ m}^2$

3)



What is the area of the parallelogram? (The height is shown by dashed lines.)

A.  $4.5 \text{ m}^2$

C.  $9 \text{ m}^2$

B.  $6.5 \text{ m}^2$

D.  $13 \text{ m}^2$



Scan me!  
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& answers

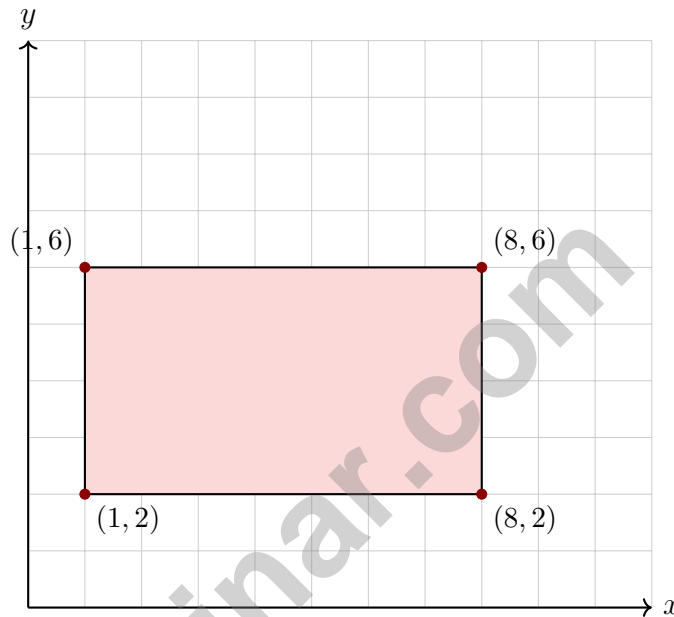
4) A rectangular prism has volume  $120 \text{ cm}^3$ , width 5 cm, and height 4 cm. What is its length?

A. 4 cm

C. 8 cm

B. 6 cm

D. 15 cm



5)

What is the perimeter of this rectangle?

A. 11 units

C. 22 units

B. 18 units

D. 28 units



## 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.**

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## Oklahoma Practice Test Answers and Explanations

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

### Practice Test 1 Answers and Explanations

- Choice D is correct.** (6.N.2.3) Multiply:  $3.8 \times 2 = 7.6$  liters.
- Choice B is correct.** (6.GM.2.3) Rectangle area =  $12 \times 5 = 60 \text{ cm}^2$ . Triangle with base 10 and height 12:  $A = \frac{1}{2} \times 10 \times 12 = 60 \text{ cm}^2$ .
- Choice C is correct.** (6.GM.2.3) Using  $A = \frac{1}{2}(b_1 + b_2)h$ :  $56 = \frac{1}{2}(10 + 6)h = 8h$ , so  $h = 7$  in.
- Choice D is correct.** (6.N.4.4)  $V = 6 \times 4 \times 2 = 24 \times 2 = 48 \text{ in}^3$ .
- Choice A is correct.** (6.GM.2.3) Base:  $13 - 1 = 12$  units. Height:  $7 - 1 = 6$  units. Area =  $\frac{1}{2} \times 12 \times 6 = 36$  square units.
- Choice B is correct.** (6.N.4.4) In order: 202, 205, 207, 211, 213, 216, 218, 220, 224, 226, 229. With 11 values, the median is the 6th value: 216 ms.
- Choice B is correct.** (6.N.2.6) GCF of 8 and 12 is 4. So  $8 + 12 = 4(2 + 3)$ . Choice A uses 2 (a common factor but not greatest); Choices C and D include decimals, violating whole-number arithmetic.
- Choice B is correct.** (6.A.3.2) Opposites are numbers equidistant from zero on opposite sides of the number line.  $-4$  and 4 are opposites.
- Choice A is correct.** (6.N.4.2)  $-1.2 = -\frac{12}{10} = -\frac{6}{5}$ .
- Choice C is correct.** (6.A.1.1) Quadrant III is in the lower left. The point closest to this boundary from Quadrant IV would have a small  $x$ -coordinate. The point  $(1, -5)$  has the smallest  $x$ -value among the Quadrant IV points listed.
- Choice D is correct.** (6.N.4.2) Three negatives (odd count):  $(-1) \times (-1) = 1$  (positive), then  $1 \times (-1) = -1$  (negative). An odd number of negatives yields a negative product.
- Choice A is correct.** (6.A.1.3)  $3j + 5 = 20$ , so  $3j = 15$  and  $j = 5$ .
- Choice D is correct.** (6.D.1.2) In a box plot, the vertical line inside the box represents the median of the data.
- Choice B is correct.** (6.D.2.3) Identical boxes mean the same  $Q_1$ , median, and  $Q_3$  (hence same IQR). Longer whiskers indicate the min and max values are further from the box.
- The correct answer is 32.** (6.A.1.3) Multiply both sides by 4:  $x = 8 \times 4 = 32$ . The inverse of dividing by 4 is multiplying by 4.
- The correct answer is 0.75.** (6.A.1.2)  $3 \div 4 = 0.75$ .
- Choice D is correct.** (6.D.1.2) Dataset A range =  $9 - 5 = 4$ . Dataset B range =  $14 - 2 = 12$ . Dataset B is much more spread out.
- Choice A is correct.** (6.N.1.4) Non-red balls =  $4 + 3 + 3 = 10$ . Probability =  $\frac{10}{15} = \frac{2}{3}$ .
- The correct answer is B: 2 kg = 2000 g; C: 0.5 miles = 2640 feet.** (6.N.4.2) A is incorrect:  $10 \times 8 = 80$  fl oz, not 60. B is correct:  $2 \times 1000 = 2000$  grams. C is correct:  $0.5 \times 5280 = 2640$  feet. D is incorrect:  $1.5 \times 1000 = 1500$  mL, not 150. E is incorrect:  $8 \times 2 = 16$  pints, not 32.
- Choice A is correct.** (6.N.4.4) 4% of 500 is  $0.04 \times 500 = 20$  items.
- Choice C is correct.** (6.A.1.2) Counting the data: 1 appears once, 2 appears 3 times, 3 appears 4 times, 4 appears once, and 5 appears once. The tallest stack would be above 3 goals.
- Choice D is correct.** (6.A.1.2) Graph 1 passes through the origin and has constant ratio  $8/4 = 2$ , so it is proportional. Graph 2 is not proportional because the ratios are different:  $3/1 = 3$  but  $5/2 = 2.5$ .
- Choice B is correct.** (6.N.2.4) Correct savings: 25% of  $\$80 = 0.25 \times 80 = \$20$ . The student's calculation of  $\$30$  is incorrect.
- The correct answer is 208.** (6.GM.2.3) Two triangular bases have area  $2 \times 24 = 48 \text{ cm}^2$ . The lateral surface area is perimeter times prism height:  $20 \times 8 = 160 \text{ cm}^2$ . Total surface area is  $48 + 160 = 208 \text{ cm}^2$ .
- Choice B is correct.** (6.N.4.2) The first fraction stays the same; flip (invert) the second fraction and change divide to multiply.



Scan me!  
For more practice  
& answers

**From Your Math Family**

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**Hi, Math Family Member,**

◇ Welcome to a special note from your math family. You finished 8 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](mailto:jay@testinar.com).

**Jay Daie**

Your Math Family

# MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

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.



### Understand Key Concepts

Reinforce important math ideas 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
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ 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.



8 FULL-LENGTH  
PRACTICE TESTS



2 ONLINE  
PRACTICE TESTS



DETAILED ANSWER  
EXPLANATIONS