

# 5

# Oklahoma OSTP

## GRADE 6 MATH PRACTICE TESTS

Standards Aligned Problem Solving  
For Comprehensive Assessment Programs



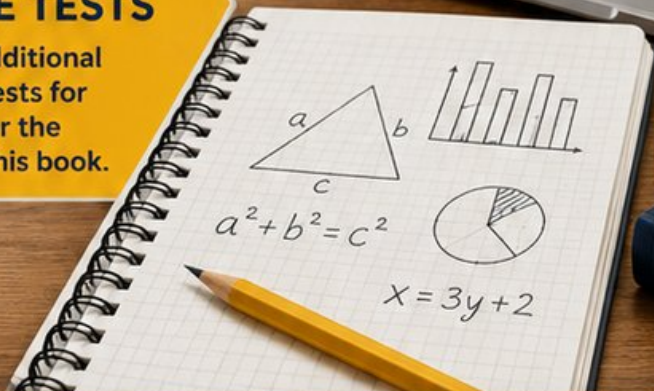
### 5 PRINTED TESTS

- ✓ Full-Length Practice Tests
- ✓ Realistic Questions
- ✓ Answer Key & Explanations



### + 2 ONLINE TESTS

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



PREPARE • PRACTICE • SUCCEED



# 5 Oklahoma OSTP Grade 6 Math Practice Tests

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



Five 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 five 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 five-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 3–4	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 5	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.



Scan me!  
For more practice  
& answers

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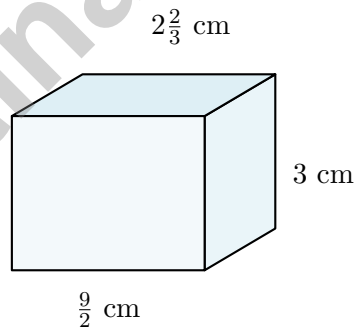
- 6) A student guesses randomly on a 4-choice multiple choice question. What is the probability that the student's answer is correct? Express your answer as a decimal.

- 7) What is  $9,360 \div 48$ ?

- A. 195                       C. 205  
 B. 200                       D. 210

- 8) A parking area shaped like a parallelogram has a base of 18 m and a height of 10 m. What is the area?

- A.  $90 \text{ m}^2$                        C.  $360 \text{ m}^2$   
 B.  $108 \text{ m}^2$                        D.  $180 \text{ m}^2$



- 9)

What is the volume?

- A.  $14 \text{ cm}^3$                        C.  $36 \text{ cm}^3$   
 B.  $18 \text{ cm}^3$                        D.  $54 \text{ cm}^3$



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10) Reduce the ratio  $16 : 24 : 40$  to lowest terms by dividing by the greatest common factor (GCF).

A.  $4 : 6 : 10$

C.  $8 : 12 : 20$

B.  $2 : 3 : 10$

D.  $2 : 3 : 5$

11) Which set of phrases describes equivalent ratios in the same order?

A. "For every 2 cats there are 5 dogs" and "The ratio is  $5 : 2$ "

C. "For every 4 red cars there are 6 blue cars" and "The ratio is  $3 : 2$ "

B. "For every 3 apples there are 7 oranges" and "The ratio is  $3 : 7$ "

D. "For every 5 boys there are 8 girls" and "The ratio is  $8 : 5$ "

12)

Cups of Juice	1	2	3	4
Cost (\$)	2.50	5.00	7.50	10.00

What is the unit rate in dollars per cup?

A. \$1.50 per cup

C. \$2.50 per cup

B. \$2.00 per cup

D. \$5.00 per cup

13) A water fountain fills 10 gallons in 2 minutes. What is the unit rate in gallons per minute?

A. 2 gal/min

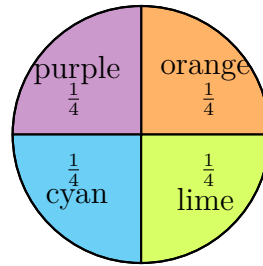
C. 8 gal/min

B. 5 gal/min

D. 20 gal/min





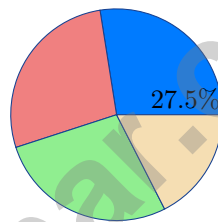


5)

The spinner above has four equal sections. What is the probability of spinning orange or cyan?

- A.  $\frac{1}{4}$   
 B.  $\frac{1}{2}$

- C.  $\frac{3}{4}$   
 D. 1



6)

A survey asked 360 people about favorite season. The circle graph shows 27.5% prefer summer. How many people prefer summer?

- A. 99  
 B. 90

- C. 108  
 D. 117

7) A class collected data on rainfall (in inches) for each day of the week. Which display would BEST show if certain days had significantly more or less rain than others?

- A. Pie chart divided by day  
 B. Line graph connecting consecutive days  
 C. Dot plot of individual measurements  
 D. Bar graph with one bar per day



1) Which list shows the numbers in order from least to greatest?

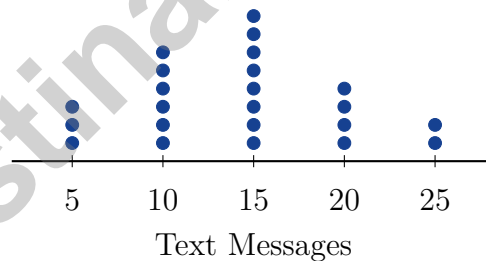
$$-2.5, \frac{1}{4}, -3, 1.75$$

- A.  $-3, -2.5, \frac{1}{4}, 1.75$ 
 C.  $-2.5, -3, \frac{1}{4}, 1.75$   
 B.  $\frac{1}{4}, 1.75, -2.5, -3$ 
 D.  $1.75, \frac{1}{4}, -2.5, -3$

2) If a rectangular prism has length 12 cm, width 9 cm, and height 6 cm, what is the lateral surface area (area of the 4 vertical faces, not including top and bottom)?

- A.  $108 \text{ cm}^2$ 
 C.  $216 \text{ cm}^2$   
 B.  $180 \text{ cm}^2$ 
 D.  $252 \text{ cm}^2$

3) A dot plot shows the number of text messages sent by students in a day. If the data has values at 5, 10, 15, 20, 25 messages with frequencies 3, 6, 8, 4, 2 respectively, which value has double the frequency of another value?



- A. 10 has double the frequency of 20
  C. 20 has double the frequency of 10  
 B. 15 has double the frequency of 20
  D. 25 has double the frequency of 15



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& answers

4) In a box plot, if the median is much closer to  $Q_1$  than to  $Q_3$ , what does this suggest about the data?

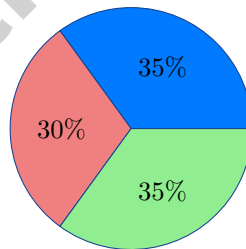
- A. The data is symmetric.  C. The data has no outliers.  
 B. The data is skewed right (positively skewed).  D. The data has equal numbers of values above and below the median.

5) Two classes compare their test results using box plots. Class 1: IQR = 10. Class 2: IQR = 25. Which is most accurate?

- A. Class 1 has more students  C. Class 1's middle 50% of scores are more tightly clustered  
 B. Class 2 has higher test scores  D. Class 1 did better overall

6) The probability that a student passes a test is  $\frac{4}{5}$ . What is the probability that the student fails the test?

- A.  $\frac{1}{5}$   C.  $\frac{3}{5}$   
 B.  $\frac{2}{5}$   D.  $\frac{4}{5}$



7)

The circle graph shows a total of 700 items. How many items are in the 30% section?

- A. 200  C. 180  
 B. 210  D. 245



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

### Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(6.D.1.2)** The median is the middle value and is not affected by how extreme outliers are. The mean is pulled by outliers; range includes them; mode may or may not be.
- 2) **Choice D is correct.** **(6.N.3.1)** Use the scale:  $8 \text{ cm} \times 2 \text{ m/cm} = 16 \text{ m}$ .
- 3) **Choice D is correct.** **(6.N.1.1)** Absolute value represents distance from zero. Both 6 and  $-6$  are exactly 6 units away from zero, so  $|6| = |-6| = 6$ .
- 4) **Choice D is correct.** **(6.N.4.1)** On the number line,  $100\% = 200$  items. So  $75\% = 0.75 \times 200 = 150$  items.
- 5) **The correct answer is 49.7.** **(6.D.1.2)** The sum is 348, and  $348 \div 7 \approx 49.7$ .
- 6) **The correct answer is 0.25.** **(6.N.1.4)** One correct choice out of 4 possible choices. Probability  $= \frac{1}{4} = 0.25$ .
- 7) **Choice A is correct.** **(6.N.4.2)**  $9,360 \div 48 = 195$ . Check:  $48 \times 195 = 9,360$ .
- 8) **Choice D is correct.** **(6.GM.2.3)** Area  $= 18 \times 10 = 180 \text{ m}^2$ .
- 9) **Choice C is correct.** **(6.N.4.4)**  $V = 4.5 \times 3 \times 2.667 = 4.5 \times 3 \times \frac{8}{3} = 4.5 \times 8 = 36 \text{ cm}^3$ .
- 10) **Choice D is correct.** **(6.N.3.1)** For a three-part ratio, divide every part by the same number. The GCF of 16, 24, and 40 is 8, so the ratio becomes  $2 : 3 : 5$ .
- 11) **Choice B is correct.** **(6.A.3.1)** Choice B keeps the same order: apples first, oranges second. The phrase and the ratio both say  $3 : 7$ .
- 12) **Choice C is correct.** **(6.GM.2.3)** Divide cost by cups:  $2.50 \div 1 = 2.50$  dollars per cup.
- 13) **Choice B is correct.** **(6.N.3.2)** Divide total gallons by time:  $10 \div 2 = 5$  gallons per minute.
- 14) **Choice D is correct.** **(6.N.4.3)** The ratio is  $7 : 5$ . When chips are 35 (multiply by 5), pretzels are  $5 \times 5 = 25$  bags.
- 15) **Choice B is correct.** **(6.N.3.3)** All these points lie on a straight line passing through  $(0, 0)$  because the ratio is constant (12 dollars per hour). Proportional relationships always graph as straight lines through the origin.
- 16) **Choice A is correct.** **(6.N.1.3)**  $0.006 \times 100 = 0.6\%$ .
- 17) **Choice D is correct.** **(6.N.1.1)** Cross-multiply:  $2 \times x = 3 \times 8$ , so  $2x = 24$ , thus  $x = 12$ .
- 18) **Choice D is correct.** **(6.N.4.2)** The correct conversion is 1 gallon = 4 quarts.
- 19) **The correct answer is The median divides the box into two 25% regions, and the upper whisker holds the top 25%.** **(6.D.2.3)** B is correct: the median line splits the box so each half represents 25% of the middle 50% (thus 25% each). D is correct: the upper whisker extends from  $Q_3$  to the max, representing the top 25%. A is wrong (lower whisker is bottom 25%, not 50%). C is incorrect (75% of data is at or below  $Q_3$ , not above it). E is false (IQR is  $Q_3 - Q_1$ , not the range).
- 20) **Choice B is correct.** **(6.GM.2.1)** Total expenses:  $\$45 + \$30 + \$20 = \$95$ . Remaining:  $\$120 - \$95 = \$25$ .
- 21) **Choice A is correct.** **(6.N.2.4)** Surplus is  $\$300 - \$180 = \$120$ . As percent:  $\$120 \div \$300 = 0.40 = 40\%$ .
- 22) **The correct answer is 112.** **(6.N.4.4)** 28% of 400 is  $0.28 \times 400 = 112$  students.
- 23) **Choice D is correct.** **(6.N.4.2)**  $\frac{5}{8} \times \frac{6}{5} = \frac{30}{40} = \frac{3}{4}$ .
- 24) **The correct answer is 38.** **(6.A.1.2)** Add the two counts:  $20 + 18 = 38$ .
- 25) **Choice B is correct.** **(6.N.2.3)** Add:  $12.4 + 11.8 + 13.2 = 37.4 \text{ s}$ .
- 26) **Choice D is correct.** **(6.N.2.6)** The factors of 24 are 1, 2, 3, 4, 6, 8, 12, 24. Since 5 is not a factor of 24, we cannot divide equally into groups of 5.
- 27) **Choice D is correct.** **(6.N.2.6)** A, B, and C all peel out different-but-valid common factors (8, 4, 2) yet land on  $40 + 24$  every time—that is flexibility the distributive property gives you.
- 28) **Choice A is correct.** **(6.A.3.2)** The points shown are the same distance from zero on opposite sides, so they are opposites.



Scan me!  
For more practice  
& answers

## Hi, Brave Explorer!

◇ What a trip! You explored 5 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 5 tests, you learned a lot. You are a stronger math explorer now. ★

### Your Explorer Tools

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

**Explorer tip:** on test day, use the tools you packed. You have the skills. You are ready!

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 Trail Guide

# PRACTICE MORE. ACHIEVE MORE.

This book provides **5 full-length Math practice tests** designed to help Grade 6 students strengthen their skills, build confidence, and excel on standardized assessments.

Each test is carefully crafted to reflect the latest standards and covers a wide range of math topics with realistic questions and detailed answer explanations.



#### BUILD CONFIDENCE

Practice builds familiarity and reduces test anxiety.



#### IMPROVE ACCURACY

Sharpen skills and avoid common mistakes.



#### ACHIEVE SUCCESS

Consistent practice leads to greater results.

## WHAT'S INSIDE?



#### 5 Full-Length Practice Tests

Realistic tests designed to mirror actual exam conditions.



#### Realistic Questions

A variety of question types to strengthen problem-solving skills.



#### Answer Keys & Explanations

Detailed solutions to help students learn and improve.



#### Performance Tracking

Track progress and identify areas that need improvement.



#### Comprehensive Coverage

All essential topics aligned with Grade 6 math standards.



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