

9 Oklahoma OSTP

GRADE 7

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

Program



**9 PRINTED
TESTS**



**2 ONLINE
TESTS**



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



BUILT FOR ACAP
Standards-Aligned



**STRENGTHEN
SKILLS**



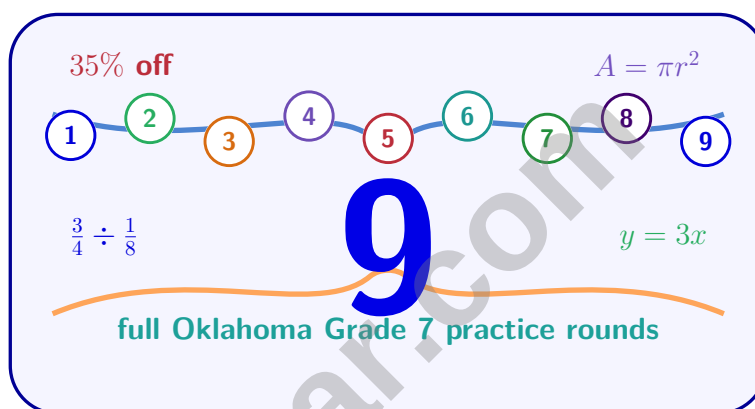
**SHARPEN
THINKING**



BE TEST-READY
Improve Performance

9 Oklahoma OSTP Grade 7 Math Practice Tests

Standards-Aligned Oklahoma Practice for Proportional Reasoning, Expressions, Geometry, Statistics, and Probability



Nine complete 40-question Grade 7 OSTP practice rounds with proportional relationships, percents, rational numbers, expressions, equations, geometry, statistics, probability, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Oklahoma Grade 7 Problem Solver!

Nine focused rounds for sharper OSTP math thinking

This book gives you nine full Grade 7 OSTP math practice tests. Each round is built to help you notice structure, compare quantities, use proportional reasoning, handle rational numbers, and explain your thinking with care.

Your Oklahoma Practice Promise

I will read every question carefully, choose a strategy that fits, write enough work to prove my answer, and use corrections as training for the next test.

Read

Model

Verify

How to Use This Book

A nine-session plan for confident Grade 7 review

1. **Warm up with the review pages.** Notice the big ideas before starting the tests.
2. **Complete one test at a time.** Treat each 40-question round like a real practice session.
3. **Show your reasoning.** Jot a proportion, equation, diagram, number line, or quick estimate when it helps.
4. **Correct actively.** Rework missed items before reading the explanation.
5. **Choose the next target.** After each test, name one skill and one habit to improve.

Oklahoma review rhythm: Work a test, score it, study your misses, then come back ready for the next round with one clear goal.



What Is Inside?

Nine OSTP tests, 360 questions, and a complete review path

Part	What You Will Practice
Tests 1–3	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 4–6	Expressions, equations, inequalities, scale drawings, geometry, and multi-step problem solving.
Tests 7–9	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.



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& answers

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- 1) A line plot shows the number of rainy days per month for 12 months. There are 2 months with 8 rainy days, 4 months with 10 rainy days, 3 months with 12 rainy days, 2 months with 14 rainy days, and 1 month with 16 rainy days. What is the median number of rainy days?

- ☐ A. 8 days ☐ C. 11 days
☐ B. 10 days ☐ D. 12 days

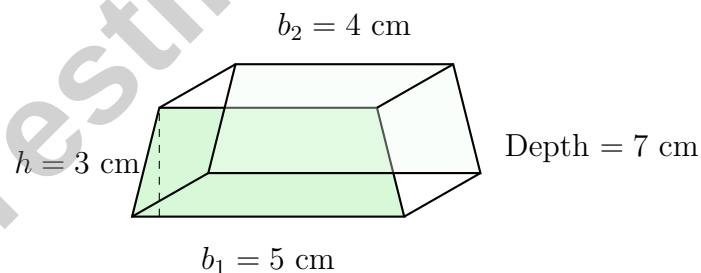
Tip Scenarios on \$60 Bill

15% tip: \$9.00	18% tip: \$10.80
20% tip: \$12.00	25% tip: \$15.00

2)

If a diner leaves a 25% tip on a \$60 bill, what is the total amount paid?

- ☐ A. \$69 ☐ C. \$75
☐ B. \$72 ☐ D. \$85



3)

A trapezoidal prism has a trapezoidal base with parallel sides 5 cm and 4 cm, height 3 cm, and prism depth 7 cm. What is the volume?

- ☐ A. 94.5 cm³ ☐ C. 126 cm³
☐ B. 115.5 cm³ ☐ D. 189 cm³



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4) Which is the best approximation for π ?

☐ A. $\frac{22}{7}$

☐ B. 3

☐ C. 2.5

☐ D. 4

5) Which probability best matches the phrase “even chance”?

☐ A. 0.2

☐ B. 0.5

☐ C. 0.8

☐ D. 0.9

6) A grocery store owner borrows \$12000 for renovations at 9.5% simple interest for 4 years. What is the total repayment amount?

☐ A. \$12950

☐ B. \$19200

☐ C. \$17400

☐ D. \$16560

7) A floor plan uses a scale of $\frac{1}{4}$ inch to 1 foot. If a hallway on the plan is 1.5 inches long, what is the actual length?

☐ A. 8 feet

☐ B. 4 feet

☐ C. 2 feet

☐ D. 6 feet

8) A student notices that two different items both cost \$60 after discount. Item 1 had a 20% discount; Item 2 had a \$15 discount. What were their original prices?

☐ A. Both were \$60

☐ B. Item 1: \$60; Item 2: \$45

☐ C. Item 1: \$75; Item 2: \$60

☐ D. Item 1: \$75; Item 2: \$75

9) Evaluate $-13 + (-7)$.

☐ A. -20

☐ B. -6

☐ C. 6

☐ D. 20



Total = 100



10)

30%

70%

The bar model shows 30% and 70% of a total. If the total is 100, how much is 30%?

☐ A. 25☐ C. 35☐ B. 40☐ D. 30

11) The table shows eggs and the cost. Find the missing number of eggs.

Eggs	6	$\frac{3}{4}$	?
Cost (\$)	2.40	0.30	1.20

☐ A. 6 eggs☐ C. 2 eggs☐ B. 4 eggs☐ D. 3 eggs

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1) Which value is NOT a valid probability?

☐ A. 0

☐ C. 1

☐ B. 0.5

☐ D. 1.01

2) If $x \div (-2) = 6$, find x .

3) Write the decimal $0.\overline{4}$ (where 4 repeats) as a fraction.

4) A student is asked to evaluate $-3 - (-5)$ and writes:

Step 1: Change to addition: $-3 - (-5) = -3 - 5$

Step 2: Add the values: $-3 - 5 = -8$

Which statement is correct?

☐ A. Both steps are correct

☐ C. Step 2 is wrong; should be $-3 + 5 =$

☐ B. Step 1 is wrong; should be $-3 + 5$ 2

☐ D. Choices B and C are both correct



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5) To find the unit price when $\frac{2}{5}$ pound costs \$4, which expression correctly computes the price per pound?

☐ A. $4 \times \frac{2}{5}$

☐ C. $\frac{2}{5} \div 4$

☐ B. $\frac{2}{5} + 4$

☐ D. $4 \div \frac{2}{5} = 4 \times \frac{5}{2}$

6) A phone plan costs \$15 per month plus \$0.10 per text message. Is the total cost proportional to the number of text messages?

☐ A. Yes

☐ C. Only if you send fewer than 50 texts

☐ B. Only if you pay more than \$20

☐ D. No

7) The table shows a proportional relationship between pounds of sugar (s) and the number of cookies baked (c).

Pounds of Sugar	Cookies Baked
2	24
3	36
5	60

In the equation $c = ks$, what is the constant of proportionality (k)?

☐ A. 8

☐ C. 15

☐ B. 10

☐ D. 12

8) Factor: $-14p + 35q$

☐ A. $-7(2p - 5q)$

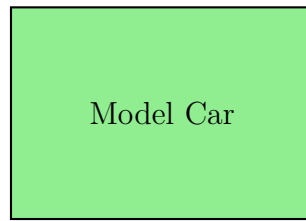
☐ C. $7(2p + 5q)$

☐ B. $7(-2p + 5q)$

☐ D. $-7(2p + 5q)$



Scale 1 : 32



Length: 8 cm

1)

A scale model of a car is built at a scale of 1 : 32. If the model is 8 cm long, what is the actual length of the car in meters?

☐ A. 1.28 m☐ C. 25.6 m☐ B. 2.56 m☐ D. 256 m

2) A rectangular living room has actual dimensions 6 m by 8 m. One scale drawing shows it as 3 cm by 4 cm. What is the scale of this drawing?

☐ A. 1 cm : 2 m☐ C. 1 cm : 4 m☐ B. 1 cm : 3 m☐ D. 3 cm : 8 m

3) Which of the following statements is true about cross-sections of a cube?

☐ A. All cross-sections are squares☐ C. Cross-sections are always congruent to the cube's faces☐ B. A cross-section can be a triangle, rectangle, or hexagon☐ D. No cross-section can have more than 4 sides

- 4) Two angles are supplementary. One angle is 15° less than the other. What is the measure of the smaller angle?
- ☐ A. 67.5° ☐ C. 82.5°
☐ B. 75° ☐ D. 97.5°
- 5) A quadrilateral has vertices at $(0, 1)$, $(3, 1)$, $(3, 4)$, and $(0, 4)$. If each vertex is reflected over the line $y = x$, which of the following is a new vertex?
- ☐ A. $(1, 0)$ ☐ C. $(0, 3)$
☐ B. $(4, 3)$ ☐ D. $(3, 0)$
- 6) Two similar triangles have perimeters of 20 inches and 50 inches. If the smaller triangle has one side of 4 inches, what is the length of the corresponding side in the larger triangle?
- ☐ A. 8 inches ☐ C. 12.5 inches
☐ B. 10 inches ☐ D. 20 inches
- 7) A pizza has diameter 14 inches. What is its circumference? Use $\pi \approx \frac{22}{7}$.
- ☐ A. 44 in ☐ C. 88 in
☐ B. 22 in ☐ D. 154 in
- 8) If a square has a perimeter of 40 cm, what is its area?



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Oklahoma OSTP Grade 7 Practice Test Answer Keys**How to use this section with a Grade 7 student:**

1. check the answer first and circle any item that needs another look
2. retry the problem with fresh work before reading the explanation
3. write one short lesson learned from each missed or guessed item

A strong review routine turns every correction into a sharper plan for the next Oklahoma OSTP practice test.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (7.SP.1-7.SP.4) With 12 data points, the median is the average of the 6th and 7th values. Counting: positions 1–2 are 8, positions 3–6 are 10, position 7–9 are 12. The 6th and 7th values average to 11.
- 2) **Choice C is correct.** (7.RP.3) Tip: $0.25 \times 60 = \$15$. Total amount paid: $60 + 15 = \$75$.
- 3) **Choice A is correct.** (7.G.4-7.G.6) Base area = $\frac{1}{2}(5 + 4) \times 3 = \frac{1}{2} \times 9 \times 3 = 13.5 \text{ cm}^2$. Volume = $13.5 \times 7 = 94.5 \text{ cm}^3$.
- 4) **Choice A is correct.** (7.G.4-7.G.6) $\pi \approx 3.14159 \dots$. The common approximations are 3.14 and $\frac{22}{7} \approx 3.142857$.
- 5) **Choice B is correct.** (7.SP.5-7.SP.8) An even chance means equally likely to happen or not, which is $P = 0.5 = 50\%$.
- 6) **Choice D is correct.** (7.RP.3) $I = 12000 \times 0.095 \times 4 = \4560 . $A = 12000 + 4560 = \$16560$.
- 7) **Choice D is correct.** (7.RP.1-7.RP.3) The scale $\frac{1}{4}$ inch : 1 foot means 1 inch : 4 feet. So $1.5 \times 4 = 6$ feet.
- 8) **Choice D is correct.** (7.RP.3) Item 1: \$75 (since $60 = \text{orig} \times 0.80$); Item 2: \$75 (since $60 + 15 = \$75$). Both were \$75.
- 9) **Choice A is correct.** (7.NS.1b) Both numbers are negative. Add their absolute values: $|-13| + |-7| = 13 + 7 = 20$. Since both are negative, the sum is -20 .
- 10) **Choice D is correct.** (7.RP.3) 30% of 100 is $0.30 \times 100 = 30$.
- 11) **Choice D is correct.** (7.RP.1-7.RP.3) Unit rate from first pair: $\frac{2.40}{6} = 0.40$ \$ per egg. For cost \$1.20: number of eggs = $\frac{1.20}{0.40} = 3$ eggs.
- 12) **Choice D is correct.** (7.RP.1-7.RP.3) The line does not pass through the origin; it starts at (0, 1). This makes it non-proportional.
- 13) **Choice D is correct.** (7.RP.3) Using the proportion $\frac{40}{100} = \frac{d}{1}$ where d is the decimal, divide: $\frac{40}{100} = 0.4$.
- 14) **The correct answer is $\frac{1}{6}$.** (7.SP.5-7.SP.8) Each spin is independent. $P(A) = \frac{3}{6} = \frac{1}{2}$ and $P(B) = \frac{2}{6} = \frac{1}{3}$, so $P(A \text{ then } B) = \frac{1}{2} \cdot \frac{1}{3} = \frac{1}{6}$.
- 15) **Choice B is correct.** (7.NS.1-7.NS.3) Change = $-0.25 \times 4 = -1$ second. New time = $3.5 - 1 = 2.75$ seconds.
- 16) **Choice A is correct.** (7.EE.1-7.EE.2) Add: $(2i + 6i) + (4 - 1) = 8i + 3$.
- 17) **Choice C is correct.** (7.EE.3-7.EE.4) First, undo the subtraction by adding 1 to both sides to isolate the fraction $\frac{3x}{4}$.
- 18) **Choice D is correct.** (7.RP.1-7.RP.3) Multiply the monthly rate by the number of months. The equation is $C = 12m$.
- 19) **The correct answer is A, C.** (7.G.4-7.G.6) Large square: $20 \times 20 = 400 \text{ m}^2$ (A). Small square: $5 \times 5 = 25 \text{ m}^2$. Remaining: $400 - 25 = 375 \text{ m}^2$ (C). The cutout is $\frac{25}{400} = \frac{1}{16}$ of the original area, not $\frac{1}{20}$.
- 20) **Choice C is correct.** (7.RP.3) Fixed expenses: $40\% + 15\% + 10\% = 65\%$ of \$4,000 = \$2,600. Remainder: $100\% - 65\% = 35\%$ of \$4,000 = \$1,400. Split equally between savings and discretionary: $\$1,400 \div 2 = \700 .
- 21) **Choice A is correct.** (7.NS.1-7.NS.3) Statement A is correct: $4 \times 4 = 16$ and $\sqrt{16} = 4$ (principal square root is positive). Statement B is false: $\sqrt{25} = 5$, not -5 (the square root symbol yields only the positive root). Statement C is false: $6^2 = 36$, not 37. Statement D is true but only A is the correct answer for this single-answer MC.
- 22) **Choice A is correct.** (7.EE.1-7.EE.2) $\text{gcd}(6, 9) = 3$, so $6x - 9 = 3(2x - 3)$ by factoring out the GCF.
- 23) **Choice A is correct.** (7.EE.1-7.EE.2) Division is subtraction of exponents: $c^8 \div c^5 = c^{8-5} = c^3$.
- 24) **Choice A is correct.** (7.EE.4a) Distribute: $-5x - 10 = 20$. Add 10: $-5x = 30$. Divide by -5 : $x = -6$.
- 25) **Choice C is correct.** (7.G.1-7.G.5) Actual dimensions: $4 \text{ cm} \times 1.5 = 6 \text{ m}$ and $5 \text{ cm} \times 1.5 = 7.5 \text{ m}$. Area = $6 \times 7.5 = 45 \text{ m}^2$.
- 26) **Choice A is correct.** (7.SP.5-7.SP.8) Each sector is $\frac{120}{360} = \frac{1}{3}$ of the whole circle, so $P(\text{Blue}) = \frac{1}{3}$. Distractors: B is $\frac{1}{4}$ (too small), C is $\frac{2}{3}$ (counts two sectors), D is $\frac{2}{5}$ (incorrect ratio).
- 27) **The correct answer is 4.** (7.RP.1-7.RP.3) New length = $8 \times \frac{1}{2} = 4$ meters.
- 28) **Choice D is correct.** (7.NS.2) $2 \times (-3) = -6$. Then $(-6) \times (-2) = 12$. Two negatives (one in the (-3) and one in the (-2)) give a positive.
- 29) **The correct answer is 1600.** (7.SP.1-7.SP.4) Set up the proportion: $\frac{80}{250} = \frac{x}{5000}$. Solve: $x = \frac{80 \times 5000}{250} = 1600$.



Hi, Confident Learner!

◇ This high-stamina book gave you nine substantial Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. Grade 7 math can feel big because it brings together rational numbers, expressions, equations, geometry, probability, and data. ◇

★ **Remember this:** But big topics become manageable when you practice one skill at a time. That is what you have been doing with every test in this book. ★

Confidence Builders

- **Know the Goal:** Identify what the question asks.
- **Use Vocabulary:** Math words point to math actions.
- **Show Work:** Give yourself something to check.
- **Celebrate Effort:** Practice is proof that you are moving.

Grade 7 test-day tip: When reviewing, do not only mark wrong answers. Write one sentence about what you learned from each one.

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

Jay Daie

Your Confidence Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **9** full-length Math practice tests and **2** online tests to help Grade 7 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.

THIS BOOK INCLUDES:

9 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer Explanations



MORE PRACTICE. GREATER RESULTS.

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

WHAT YOU'LL 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 with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

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



2 ONLINE TESTS

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



2 EXTRA ONLINE TEST ACCESS CODE IS INSIDE THE BOOK!

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