

# 9

# Oklahoma

## OSTP

# GRADE 5 MATHEMATICS PRACTICE TESTS

Full-Length Standards-Aligned Practice  
for Strong Math Performance

$$A = l \times w$$

$$x^2 + 3x - 4 = 0$$

$$y = 2x + 1$$



**9**  
FULL-LENGTH  
PRACTICE  
TESTS

$$2,345 \times 6 = 14,070$$



$$\frac{3}{4} + \frac{1}{8} = \frac{7}{8}$$

$$7.2 \div 0.8 = 9$$



$$(12 + 8) \div 4 = 5$$



Build Confidence



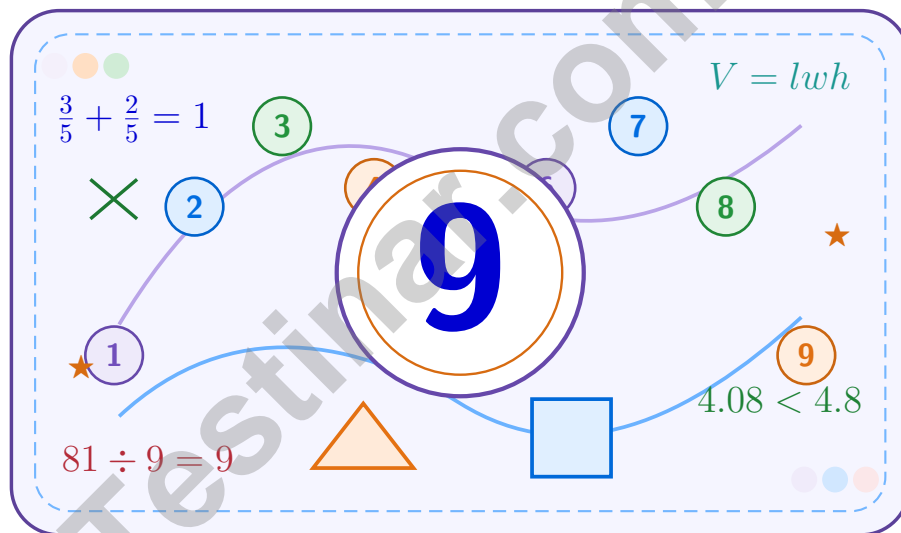
Improve Math Skills



Achieve Success

# 9 Oklahoma OSTP Grade 5 Math Practice Tests

*A nine-step confidence climb with clear review, smart strategy, and practice that gets stronger every round*



**Nine full tests, focused skill boosters, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.**

**Jay Daie and Reza Nazari**



# Copyright ©

**Testinar Inc**



Published by Testinar Inc

[Testinar.com](http://Testinar.com)

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



*Copyright ©*

# Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

## To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these nine tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

### Try

Give each problem your best thinking.

### Check

Study mistakes and learn what happened.

### Rise

Bring that lesson into the next round.

**A strong habit for every page:** read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

# How to Use This Book

A simple practice routine that turns nine tests into steady growth

## A Nine-Session Climb Map

Session	Mission Focus
1	Take Test 1; review place value and operation slips.
2	Take Test 2; keep work neat and easy to read.
3	Take Test 3; give extra time to fractions and decimals.
4	Take Test 4; slow down on word problems and units.
5	Take Test 5; compare scores and habits with earlier rounds.
6	Take Test 6; notice which habits are now automatic.
7	Take Test 7; explain open-ended answers clearly.
8	Take Test 8; review topics that still need attention.
9	Take Test 9; finish with calm, careful, confident work.

### Step 1: Warm Up

**Start with the quick review.**  
Spend a few minutes refreshing the ideas before you start a test.

### Step 2: Take the Test

**Take one full practice test.**  
Work in a quiet space and let accuracy matter more than speed.

### Step 3: Study the Pattern

**Check your work honestly.**  
Circle missed questions and notice patterns in the mistakes.

### Step 4: Learn, Then Retry

**Read the explanation and try again.**  
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.



Scan me

# Test Overview

## What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the Oklahoma OSTP. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

### Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

### Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

### Grade 5 Skills You Will Practice Often

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, decimals, and mixed numbers
- perimeter, area, volume, and measurement conversions
- coordinate points, patterns, graphs, and tables
- geometry and multi-step word problems

**What strong work looks like:** the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



# Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	31
★ Practice Test 3	_____	46
★ Practice Test 4	_____	61
★ Practice Test 5	_____	77
★ Practice Test 6	_____	91
★ Practice Test 7	_____	107
★ Practice Test 8	_____	123
★ Practice Test 9	_____	137
<b>Practice Test Answer Keys</b>	_____	<b>152</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>158</b>

## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

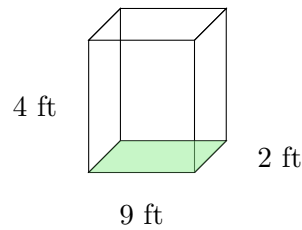
1 minute (min) = 60 seconds (sec)    1 week = 7 days

1 hour (hr) = 60 minutes (min)    1 year = 12 months

1 day = 24 hours (hr)    1 year = 52 weeks







4)

Find the volume.

A.  $18 \text{ ft}^3$

C.  $72 \text{ ft}^3$

B.  $36 \text{ ft}^3$

D.  $15 \text{ ft}^3$

5) A road is  $\frac{7}{8}$  mile long. You have traveled  $\frac{4}{7}$  of the road. How far have you traveled? Give the answer in simplest form.

A.  $\frac{28}{15}$  mile

C.  $\frac{3}{5}$  mile

B.  $\frac{1}{2}$  mile

D. 1 mile

6) How many times greater is 4000 than 4?

A. 10 times

C. 1000 times

B. 100 times

D. 10000 times

7)  $720 \div 100 = ?$

A. 0.72

C. 72

B. 7.2

D. 720

8) Evaluate the expression:  $\{(8 + 2) \times 3\} - 5 \times 2$

*Record your answer in the space provided.*



## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

1 minute (min) = 60 seconds (sec)    1 week = 7 days

1 hour (hr) = 60 minutes (min)    1 year = 12 months

1 day = 24 hours (hr)    1 year = 52 weeks



1) Storage unit: base area  $28 \text{ ft}^2$ , height 11 ft. Volume =?

A.  $308 \text{ ft}^3$

C.  $17 \text{ ft}^3$

B.  $39 \text{ ft}^3$

D.  $280 \text{ ft}^3$

2) Which fraction is equivalent to  $\frac{2}{8}$ ?

A.  $\frac{1}{2}$

C.  $\frac{3}{8}$

B.  $\frac{2}{6}$

D.  $\frac{1}{4}$

3) A storage box has volume 180 cubic centimeters. Its base is 9 centimeters by 5 centimeters. What is its height?

*Record your answer in the space provided.*

4) Which product is greater:  $11 \times \frac{7}{8}$  or  $11 \times \frac{8}{7}$ ?

A.  $11 \times \frac{7}{8}$

 C. They are equal

B.  $11 \times \frac{8}{7}$

 D. Cannot be compared

5) Evaluate  $10^5$ .

A. 100000

C. 10000

B. 50000

D. 1000

6) Add and write the sum in simplest form:  $\frac{4}{10} + \frac{1}{3}$

A.  $\frac{5}{13}$

C.  $\frac{22}{15}$

B.  $\frac{11}{15}$

D.  $\frac{4}{30}$



## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

1 minute (min) = 60 seconds (sec)    1 week = 7 days

1 hour (hr) = 60 minutes (min)    1 year = 12 months

1 day = 24 hours (hr)    1 year = 52 weeks



1) Which symbol makes this statement true?  $7 \times \frac{2}{3}$  \_\_\_  $7 \times 1$

$$\boxed{7 \times \frac{2}{3}} \overset{?}{\rightarrow} \boxed{7 \times 1}$$

- A. Cannot determine                       C. >  
 B. =     D. <
- 2) Two identical boxes are stacked on top of each other. Each box is 8 in.  $\times$  5 in.  $\times$  3 in.. If stacked end-to-end (height-wise), what is the combined volume?



- A. 120 cubic inches                       C. 360 cubic inches  
 B. 480 cubic inches                       D. 240 cubic inches
- 3) Which expression represents adding 7 to  $4 \times 9$ ?
- A.  $7 + 4 + 9$                                C.  $7 \times (4 + 9)$   
 B.  $4 \times 9 + 7$                                D.  $4 \times (9 + 7)$
- 4) Find the sum:  $1\frac{1}{2} + 2\frac{1}{3}$ .

*Record your answer in the space provided.*



## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

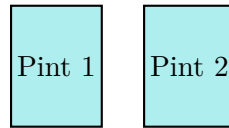
1 minute (min) = 60 seconds (sec)    1 week = 7 days

1 hour (hr) = 60 minutes (min)    1 year = 12 months

1 day = 24 hours (hr)    1 year = 52 weeks



- 1) How many fluid ounces are in 2 pints? (1 pint = 16 fl oz)



2 pints = ?  
(16 fl oz each)

- A. 24 fl oz                       C. 16 fl oz  
 B. 40 fl oz                       D. 32 fl oz
- 2) What is  $6 \times \frac{1}{8}$ ?
- A.  $\frac{3}{4}$                                    C.  $\frac{1}{48}$   
 B.  $\frac{5}{8}$                                    D.  $\frac{1}{2}$
- 3) A prism's bottom layer has 12 unit cubes. The prism is 4 layers tall. What is the total volume?

*Record your answer in the space provided.*

- 4) Find the difference:  $8\frac{2}{3} - 4\frac{1}{6}$ .

*Record your answer in the space provided.*



## Practice Test Answer Keys

### How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

**Good correction habits build strong Oklahoma scores.**

Testinar.com



Scan me

## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice C is correct.** (5.N.2.2) Multiply:  $35 \times 22 = 35 \times (20 + 2) = (35 \times 20) + (35 \times 2) = 700 + 70 = 770$  cans.
- Choice B is correct.** (5.N.2.2) Dividing by a power of 10 shifts the value to a smaller place.  $7,000 \div 10 = 700$  screws per box. This confirms the answer.
- Choice D is correct.** (5.N.1.1) For each point, the second coordinate is 1 more than the first:  $0+1=1$ ,  $2+1=3$ ,  $4+1=5$ ,  $6+1=7$ .
- Choice C is correct.** (5.GM.2.1)  $V = 9 \times 2 \times 4 = 72 \text{ ft}^3$ .
- Choice B is correct.** (5.N.3.1)  $\frac{4}{7} \times \frac{7}{8} = \frac{28}{56}$ , which simplifies to  $\frac{1}{2}$  mile.
- Choice C is correct.** (5.N.1.1)  $4000 \div 4 = 1000$ . So 4000 is 1000 times greater than 4.
- Choice B is correct.** (5.N.1.1) Dividing by 100 moves the decimal two places left, so 720 becomes 7.2.
- The correct answer is 50.** (5.N.1.1) Innermost first:  $8 + 2 = 10$ . Then  $10 \times 3 = 30$ . Then  $30 - 5 = 25$ . Finally  $25 \times 2 = 50$ .
- Choice C is correct.** (5.A.2.1) A square has four right angles and four equal sides, so it is both a rectangle and a rhombus.
- Choice A is correct.** (5.N.1.1) The decimal 0.47 has two digits after the decimal point, so it represents 47 hundredths:  $0.47 = \frac{47}{100}$ .
- Choice D is correct.** (5.N.1.1)  $\frac{9}{12} - \frac{3}{12} = \frac{6}{12}$ , which simplifies to  $\frac{1}{2}$ .
- Choice C is correct.** (5.N.3.3)  $\frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$ . Subtract the numerators when denominators are the same, then simplify.
- The correct answer is 1.** (5.GM.1.2) The description says exactly one pair of parallel sides, so the answer is 1 pair.
- Choice B is correct.** (5.GM.1.2)  $0.037 \times 100 = 3.7$ . In the product, the digit 3 is in the ones place.
- Choice C is correct.** (5.N.2.2)  $5 \div \frac{1}{3} = 5 \times 3 = 15$ . She uses 15 batches.
- The correct answer is 5.99.** (5.N.3.1) Thousandths digit is 5, which rounds the hundredths up from 8 to 9: 5.99.
- Choice C is correct.** (5.N.3.1) New width:  $2 \times \frac{3}{2} = 3$  m. New area:  $5 \times 3 = 15 \text{ m}^2$ . Scaling by  $\frac{3}{2}$  increases the area by the same factor.
- The correct answer is 1.7 ft.** (5.N.1.2) Total length cut:  $2.75 + 3.8 + 4.25 = 10.8$  ft. Remaining length:  $12.5 - 10.8 = 1.7$  ft.
- Choices A, B, D are correct.** (5.N.1.2) Line up decimal points and add. A gives 0.80, B gives 4.00, and D gives 4.00. C should be 1.10.
- Choice A is correct.** (5.N.1.2) The output is found by starting with 4 and adding twice the input. Since  $18 - 4 = 14$ , twice the input must be 14, so the input is 7.
- The correct answer is 60.** (5.GM.3.5)  $0.6 \times 100 = 60$  cm. Multiplying by 100 changes meters into centimeters.
- Choice D is correct.** (5.GM.3.5) Total needed: 3 liters = 3,000 mL. Chef has: 2 liters 250 mL = 2,250 mL. Remaining:  $3,000 - 2,250 = 750$  mL.
- Choice C is correct.** (5.N.2.1) Multiples of 5: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60. Multiples of 12: 12, 24, 36, 48, 60. The first common multiple is 60. Choices A and D have LCDs 12 and 6, and Choice B has LCD 20.
- Choice C is correct.** (5.A.1.2) One repeat moves from (0, 0) to (2, 3). A second repeat adds another 2 to x and another 3 to y, giving (4, 6).
- Choice C is correct.** (5.GM.3.3) Volume =  $6 \times 2 \times 2 = 24$  unit cubes.
- Choice D is correct.** (5.GM.3.3) Add:  $2\frac{3}{5} + 3\frac{1}{5} = 5\frac{4}{5}$ .
- Choice B is correct.** (5.N.1.2) Compare tenths first, then hundredths when needed:  $0.72 < 0.80 < 0.86 < 1.0$ .
- Choice D is correct.** (5.N.1.2) The phrase “three times as much” tells us to take the whole amount (8 + 5) and multiply it by 3. That gives  $3 \times (8 + 5)$ .
- Choice C is correct.** (5.A.2.3)  $0.3 \times 0.7$ : Multiply  $3 \times 7 = 21$ . Both factors have 1 decimal place each, so total is  $1 + 1 = 2$  places: 0.21, not 2.1.



### Notes From the Math Gardener

#### Dear Math Gardener,

◇ Look at how much you've grown! 9 practice tests is like 9 seasons of planting and harvesting. Each problem was a seed, each effort was water, and each "aha!" was sunshine. Your math garden is strong now—and it shows. ◇

★ **What gardeners know:** growth is steady, not sudden. You don't see roots growing, but they are. You don't always feel yourself getting smarter, but you are. The proof is in the questions you can solve today that felt impossible 9 tests ago. ★

#### Garden Inspection Report

- **Roots (foundation):** DEEP! Your basic skills are solid.
- **Stems (structure):** STURDY! Your problem-solving steps hold up.
- **Leaves (skills):** LUSH! You have many strategies to draw on.
- **Flowers (confidence):** BLOOMING! You believe in your skills.

**Gardener's wisdom:** keep watering your math garden long after the test. Every habit you built (read carefully, plan, check) will grow with you for years. The test is just one harvest. Your garden keeps growing.

If you want to share a proud moment or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com). I'd love to hear from you!

**Jay Daie**

Your Math Gardener (Keep Growing!)

# PRACTICE MORE. ACHIEVE MORE.

Give your child the edge they need to excel in **Grade 5 Math!** This book includes **9 full-length** practice tests designed to build confidence, sharpen skills, and improve test performance.

# 9

**FULL-LENGTH  
PRACTICE  
TESTS**

- ✓ Realistic.
- ✓ Rigorous.
- ✓ Results-Driven.

More practice today for a **stronger** tomorrow.



## THIS BOOK HELPS YOUR CHILD:



### Build Confidence

Familiar, focused practice reduces anxiety and boosts self-belief.



### Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



### Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



### Track Progress

Identify strengths and target areas with purposeful practice.



### Achieve Success

Better preparation leads to higher scores and bright futures.

## COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



Visit [testinar.com/math5](https://testinar.com/math5)

for more Grade 5 math resources and practice materials!



Aligned to Standards



Created by Educators



Trusted by Parents & Teachers