

# 10 COMPLETE Oklahoma OSTP

## GRADE 5

# MATH PRACTICE TESTS

Standards-Based Review with  
Mixed Practice and Detailed Answer Key



### 10 Complete Practice Tests

Build confidence and test readiness



### Standards-Based Review

Covers key Grade 5 math standards



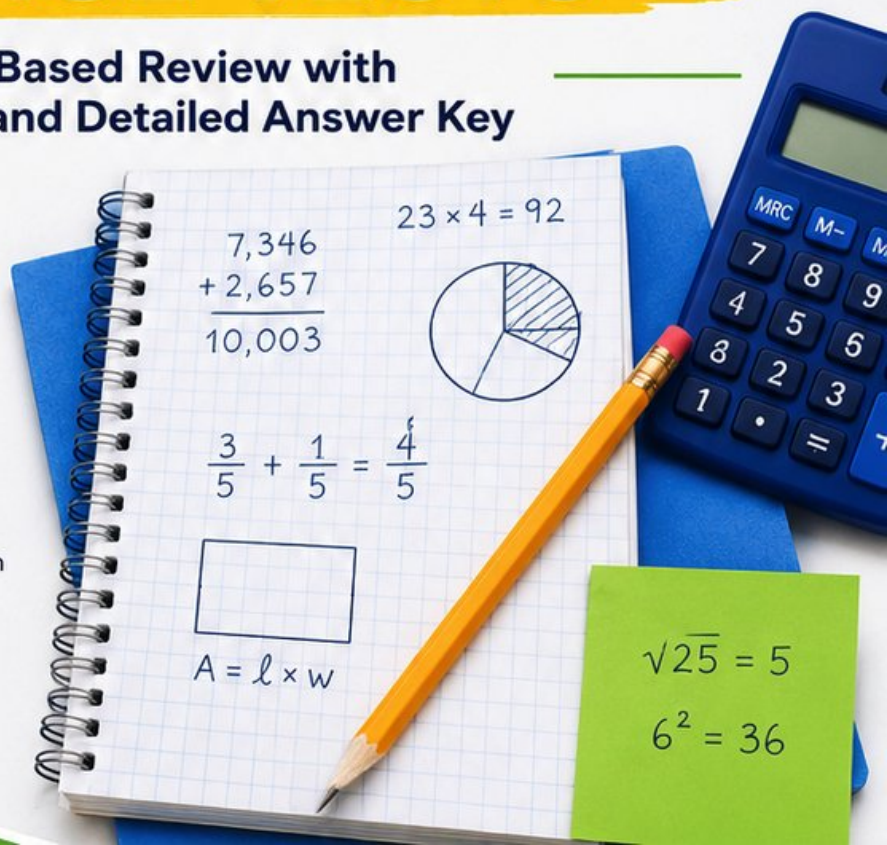
### Mixed Practice

Variety of question types to strengthen skills



### Detailed Answer Key

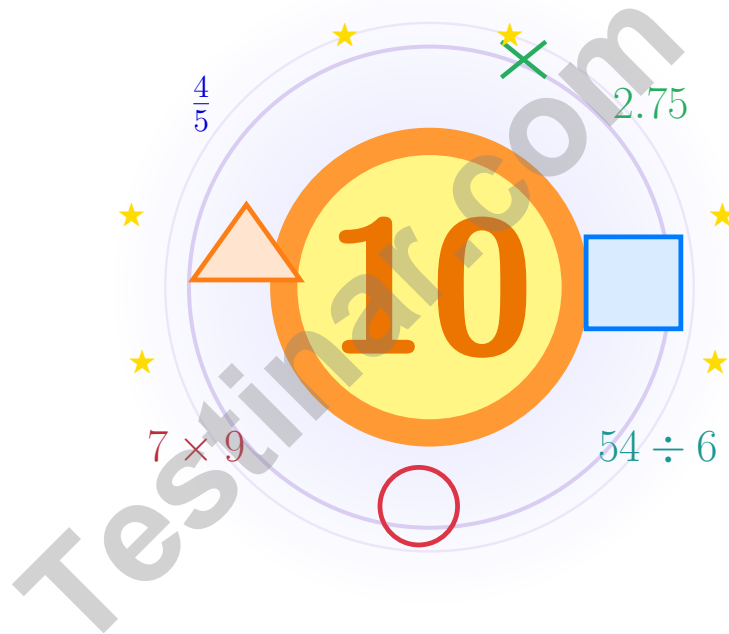
Step-by-step explanations for every question



PREPARE.  
PRACTICE.  
SUCCEED!

# 10 Oklahoma OSTP Grade 5 Math Practice Tests

*Bright review, thoughtful practice, and steady confidence for Grade 5*



Ten full tests, a focused quick review, and student-friendly support that keeps practice clear and encouraging.

**Jay Daie and Reza Nazari**



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# Welcome!

This book is a place to practice bravely and think clearly

## Dear Grade 5 Mathematician

This book gives you ten chances to read carefully, solve thoughtfully, and build steady math confidence. Some problems will feel friendly right away. Some will take more patience. Both kinds help you grow.

The goal is not to feel perfect before you begin. The goal is to practice honest effort, learn from corrections, and notice how much stronger your thinking becomes over time.

### Read

Slow down and understand the task.

### Solve

Show clear steps and good choices.

### Learn

Use mistakes as clues for what comes next.

**A strong habit from the start:** keep your work neat, estimate when it helps, write units carefully, and do not let one hard problem decide your mood for the whole page.



# How to Use This Book

A simple routine that turns practice into real progress

## Step 1

**Warm up with the quick review.**

Spend a few minutes refreshing the ideas before the test begins.

## Step 2

**Take one full practice test.**

Work in a calm spot and aim for careful thinking before speed.

## Step 3

**Check your work honestly.**

Circle missed questions and notice which skills need another look.

## Step 4

**Fix and reflect.**

Read the explanation, repair the work, and bring that lesson into the next test.



**A Good 10-Week Rhythm**

<b>Week 1</b>	Take Test 1 and notice your starting strengths.
<b>Week 2</b>	Take Test 2 and slow down on word problems.
<b>Week 3</b>	Take Test 3 and sharpen multiplication and division checks.
<b>Week 4</b>	Take Test 4 and focus on fractions and decimals.
<b>Week 5</b>	Take Test 5 and watch your labels and units closely.
<b>Week 6</b>	Take Test 6 and practice calmer pacing.
<b>Week 7</b>	Take Test 7 and compare your habits with the earlier weeks.
<b>Week 8</b>	Take Test 8 and focus on tidy, checkable work.
<b>Week 9</b>	Take Test 9 and compare your progress with the way you worked in the earlier weeks.
<b>Week 10</b>	Take Test 10 and finish with steady, confident effort while using every strong habit you built.



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## 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) A toy box measures 12 inches long, 8 inches wide, and 6 inches tall. What is the total volume?

A.  $480 \text{ in}^3$

B.  $520 \text{ in}^3$

C.  $576 \text{ in}^3$

D.  $600 \text{ in}^3$

2) Find the product:  $0.6 \times 10,000$ .

*Record your answer in the space provided.*

3) Which number has a 6 in the hundredths place?

A. 4.687

B. 6.483

C. 3.64

D. 9.061

4) A trip is 2 hours 45 minutes. Express the total time in minutes.

*Record your answer in the space provided.*

5) Subtract and express in simplest form:  $12\frac{10}{12} - 5\frac{8}{12}$ .

A.  $7\frac{1}{6}$

B.  $7\frac{3}{12}$

C.  $7\frac{1}{3}$

D. 8



6) Evaluate:  $6 \times (7 + 3) - 20$

A. 20

C. 40

B. 30

D. 50

7) A runner jogs  $2\frac{3}{4}$  miles each day. How far does she jog in 6 days?

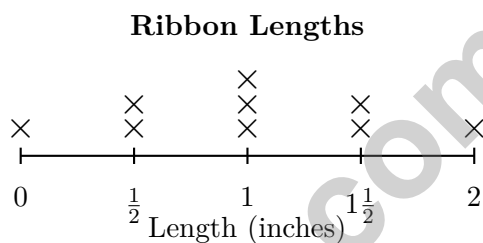
A.  $18\frac{1}{4}$  miles

C. 17 miles

B.  $16\frac{1}{2}$  miles

D. 15 miles

8) The line plot shows the lengths (in inches) of ribbon used in art class:



What is the total length of the pieces that are 1 inch or  $1\frac{1}{2}$  inches long?

A. 4 in

C. 6 in

B. 5 in

D. 7 in

9) Which shows the zeros in  $180 \times 500$  correctly analyzed?

A.  $18 \times 5 = 90$  and  $90 \times 100 = 9,000$  (3 zeros)

C.  $180 \times 5 = 900$  and  $900 \times 10 = 9,000$  (3 zeros)

B.  $1 \times 5 = 5$  and  $5 \times 10,000 = 50,000$  (4 zeros)

D.  $18 \times 5 = 90$  and  $90 \times 1,000 = 90,000$  (4 zeros)



## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

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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)

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

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

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

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### 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) Maya finds the volume of a step-shaped solid. She calculates only the bottom prism,  $9 \times 4 \times 3 = 108$ , and stops. What is her mistake?

- A. She should have added only the side lengths.
- B. She counted the top prism two times.
- C. She forgot to add the top prism's volume.
- D. She used cubic units when she should use square units.

2) A runner runs 5.6 km each day for 7 days. What is the total distance?

*Record your answer in the space provided.*

3) A triangle has all angles less than 90 degrees. What type of triangle is this based on its angles?

- A. Right triangle
- B. Acute triangle
- C. Obtuse triangle
- D. Not enough information

4) Compare:  $36 \div 4$    $36 \div 6$

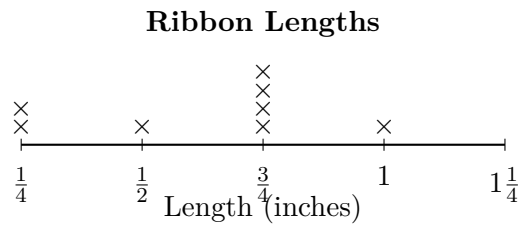
- A. >
- B. <
- C. =
- D. Cannot tell

5) Tailor has two cloth pieces:  $3\frac{2}{5}$  yd and  $2\frac{3}{5}$  yd. Total?

- A. 5 yd
- B. 6 yd
- C.  $6\frac{1}{5}$  yd
- D.  $6\frac{3}{5}$  yd



38) The line plot shows ribbon lengths in inches:



What is the total length of the four ribbons that each measure  $\frac{3}{4}$  inch?

- A. 2 inches
- B.  $2\frac{1}{2}$  inches
- C. 3 inches
- D. 4 inches
- 39) Ella has  $\frac{7}{8}$  of a yard of ribbon. She uses  $\frac{3}{8}$  for a gift. How much ribbon does she have left?
- A.  $\frac{2}{8}$
- B.  $\frac{1}{2}$
- C.  $\frac{10}{8}$
- D.  $\frac{6}{8}$
- 40) What is  $10^3$ ?
- A. 30
- B. 100
- C. 1000
- D. 10000

## End of Practice Test

Nice work. Pause, breathe, and check your answers with care.



Scan me

Grade 5 Mathematics

10

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



## 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 scores.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (5.GM.2.1) Volume =  $12 \times 8 \times 6 = 96 \times 6 = 576 \text{ in}^3$ .
- 2) **The correct answer is 6000.** (5.N.1.1) Multiplying by 10,000 moves the decimal point four places right:  $0.6 \rightarrow 6,000$ .
- 3) **Choice D is correct.** (5.N.2.2) In 9.061, the digit 0 is in the tenths place, 6 is in the hundredths place, and 1 is in the thousandths place. So the digit 6 is in the hundredths place.
- 4) **The correct answer is 165.** (5.N.2.1) Convert the hours first: 2 hours is  $2 \times 60 = 120$  minutes. Add 45 minutes to get  $120 + 45 = 165$  minutes.
- 5) **Choice A is correct.** (5.N.3.1)  $12 - 5 = 7$  and  $\frac{10}{12} - \frac{8}{12} = \frac{2}{12} = \frac{1}{6}$ . Result:  $7\frac{1}{6}$ .
- 6) **Choice C is correct.** (5.A.2.1) First solve the parentheses:  $7 + 3 = 10$ . Then multiply,  $6 \times 10 = 60$ , and subtract 20 to get 40.
- 7) **Choice B is correct.** (5.N.1.3)  $2\frac{3}{4} \times 6 = \frac{11}{4} \times 6 = \frac{66}{4} = 16\frac{1}{2}$  miles.
- 8) **Choice C is correct.** (5.N.1.3) There are 3 pieces that are 1 inch long and 2 pieces that are  $1\frac{1}{2}$  inches long. The total is  $3 \times 1 + 2 \times 1\frac{1}{2} = 3 + 3 = 6$  inches.
- 9) **Choice D is correct.** (5.N.1.1)  $180 = 18 \times 10$  and  $500 = 5 \times 100$ . The nonzero parts make  $18 \times 5 = 90$ , and the powers of 10 make  $10 \times 100 = 1,000$ . So  $90 \times 1,000 = 90,000$ , which has 4 zeros total.
- 10) **Choice B is correct.** (5.N.3.1) A is close to  $\frac{1}{2}$ , B equals  $\frac{1}{2}$ , C is about 0.4, and D is about 0.41. B is exact, so it is the closest.
- 11) **Choice D is correct.** (5.A.1.2) The x-coordinate is 5 (blocks east) and the y-coordinate is 3 (blocks north), so the coordinates are (5, 3).
- 12) **Choice A is correct.** (5.A.2.3) A quarter of the sum is less than the original sum, and three times the sum is greater than the original sum. So the quarter is smallest, the sum is in the middle, and the triple is largest.
- 13) **Choice C is correct.** (5.N.1.3)  $24 \times \frac{5}{6} = 20$  inches. Multiplying by  $\frac{5}{6}$  (less than 1) gives a smaller result, but still close to the original.
- 14) **Choice C is correct.** (5.GM.3.3) Add the cubes from each stage. Three groups of 10 cubes make  $10 + 10 + 10 = 30$  unit cubes total.
- 15) **Choice D is correct.** (5.GM.3.5) 1 meter = 100 centimeters. So  $5 \times 100 = 500$  cm.
- 16) **Choice D is correct.** (5.N.1.1) The thousandths place is the third position to the right of the decimal point. In 11.247, the digit 7 is in the thousandths place.
- 17) **Choice B is correct.** (5.D.1.2) Each whole contains 4 pieces of size  $\frac{1}{4}$ . With 4 wholes, there are  $4 \times 4 = 16$  pieces.
- 18) **Choice B is correct.** (5.N.1.2) B is correct because  $4.26 + 1.53 = 5.79$ . A should be 5.49, C should be 8.43, and D should be 8.65.
- 19) **The correct answer is 5 polygons.** (5.GM.1.2)  $12 - 7 = 5$  polygons are outside the quadrilateral part of the diagram.
- 20) **Choices A, B are correct.** (5.N.1.1)  $3.65 \times 10 = 36.5$  and  $0.365 \times 100 = 36.5$ . C and D both give 365.
- 21) **Choice B is correct.** (5.N.1.3) Both expressions multiply 24 by a fraction. Since  $\frac{4}{5} > \frac{2}{3}$ ,  $\frac{4}{5} \times 24$  has the larger value.
- 22) **Choice B is correct.** (5.N.1.2) Check by multiplying:  $0.7 \times 5 = 3.5$ . The quotient is reasonable because it checks with the inverse operation.
- 23) **Choice D is correct.** (5.GM.2.1) Volume = length  $\times$  width  $\times$  height =  $5 \times 4 \times 3 = 60 \text{ cm}^3$ .
- 24) **Choice D is correct.** (5.N.3.1)  $\frac{2}{3} \times 3 = \frac{6}{3} = 2$  dollars.
- 25) **Choice C is correct.** (5.A.2.1) The parentheses give  $7 \times 4 = 28$ , and the division gives  $18 \div 3 = 6$ . Now finish left to right:  $56 - 28 + 6 = 34$ .
- 26) **The correct answer is  $6\frac{1}{6}$ .** (5.N.3.1)  $4 + 1 = 5$ .  $\frac{5}{6} + \frac{2}{6} = \frac{7}{6} = 1\frac{1}{6}$ . Total:  $5 + 1\frac{1}{6} = 6\frac{1}{6}$ .
- 27) **Choice B is correct.** (5.A.1.2) In an ordered pair  $(x, y)$ , the  $y$  represents the vertical distance (how far up) from the origin.
- 28) **Choice C is correct.** (5.A.2.3) Use the rectangular-prism volume formula:  $10 \times 3 \times 6 = 180$ . So the volume is 180 cubic feet.
- 29) **Choice B is correct.** (5.N.3.2)  $10 \times \frac{2}{5} = \frac{20}{5} = 4$ .



### A Mentor's Quiet Encouragement

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#### To My Thoughtful Student,

◇ I want to take a moment, away from the noise of practice, to tell you something true: you have done excellent work. 10 practice tests is a real commitment. Most students do not finish what they start. You did. ◇

★ **What mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you tackle a problem today versus how you tackled it weeks ago. That growth is your real prize. ★

#### What I See In You

- **Determination:** DEEP. You don't quit when problems get tough.
- **Curiosity:** BRIGHT. You wonder why and how, not just "what's the answer."
- **Self-Awareness:** REAL. You know what you understand and what you're learning.
- **Kindness:** CONSISTENT. You're patient with yourself.

**Mentor's note:** on test day, treat yourself like you'd treat a friend. Be patient. Be encouraging. Be kind. The same skills that helped you finish 10 tests will carry you through the real one.

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 Mentor (Quietly Cheering)

# PRACTICE TODAY. MASTER TOMORROW.

Give your child the confidence to excel in **Grade 5 Math!**  
This book includes **10 complete practice tests** designed to build strong skills, improve test readiness, and achieve success.



**10**  
COMPLETE  
PRACTICE  
TESTS

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- ✓ Results-Driven.

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## 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

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## COVERS ALL ESSENTIAL TOPICS

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



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