

# 4

**COMPLETE**

# Wyoming

## WY TOPP

Grade

# MATH

# 5

## PRACTICE TESTS

Standards-Based Test Prep with  
Mixed Review, Word Problems,  
and **Full Answer Key**



- ✓ **4 COMPLETE PRACTICE TESTS**  
Built to reflect the test format and rigor



- ✓ **COVERS ALL ESSENTIAL TOPICS**  
Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more



- ✓ **STRENGTHEN SKILLS & CONFIDENCE**  
Mixed review, challenging questions, and strategic practice



- ✓ **FULL ANSWER KEY INCLUDED**  
Detailed explanations for every question



**BUILD STRONG MATH SKILLS & TEST READINESS**



**IMPROVE ACCURACY, SPEED, AND PROBLEM SOLVING**



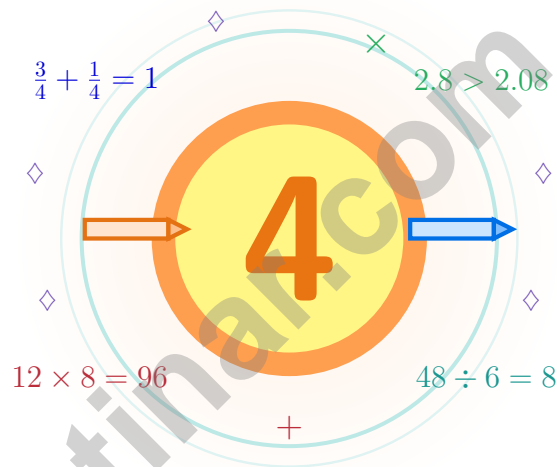
**PERFECT FOR CLASSROOM, HOME, OR SELF-STUDY**



**ALIGNED TO WYOMING STATE STANDARDS (WY TOPP)**

# 4 Wyoming WY-TOPP Grade 5 Math Practice Tests

*A four-test adventure built for steady, brave thinking*



Four full tests, a smart quick review, mission-style strategy pages, and student-tested support that help Grade 5 mathematicians from The Equality State build calm, careful, confident habits.

**Jay Daie and Reza Nazari**



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# Strap In, Wyoming – Four-Test Adventure

Four full tests and a coach's voice on every page

## Wyoming Mathematicians, Read This First

This book gives you four chances to read closely, solve carefully, and level up your math thinking. Math is a lot like Yellowstone – full of patterns, surprises, and steady eruptions of insight if you watch closely.

You do not need to feel perfect before you begin. You just need to stay curious, use strategies, and learn from every correction. That is how confident mathematicians are built.

### Notice

Notice numbers, units, labels, and tricky words.

### Sketch

Sketch a model, table, or quick number line.

### Confirm

Confirm your answer with a quick estimate.

**A strong mission habit for Wyoming:** keep your work neat, estimate when it helps, label units carefully, and never let one hard question decide your mood for the whole page.

# From Cover to Final Test

A four-step routine that turns practice into real improvement

## Step 1: Plan

**Plan a quiet hour for one full test.**  
Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

## Step 2: Practice

**Take the test with calm focus.**  
Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

## Step 3: Inspect

**Inspect every answer like a careful builder.**  
Circle missed questions, sort out what went sideways, and notice which skills are calling for attention.

## Step 4: Adjust

**Adjust what needs adjusting for the next test.**  
Read the explanation, fix the work, and carry that lesson into the very next test.

## A Four-Week Wyoming Mission Map

Week	Mission Focus
Week 1	Take Test 1 like a wide Wyoming sunrise – patient eyes, calm heart.
Week 2	Take Test 2 and lift word problems and step-showing.
Week 3	Take Test 3 to polish fractions, decimals, and conversions.
Week 4	Take Test 4 with calm, careful, geyser-steady focus.



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## Four Tests, Up Close

What these four practice tests help Grade 5 students build

These three practice tests prepare Grade 5 students in the Equality State for the Wyoming WY-TOPP with the calm focus of a long Wyoming sunrise. The goal is bigger than collecting right answers. Students are practicing how to read carefully, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every day.

### Selected-Response Questions

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

### Constructed-Response Questions

Students show steps, explain a method, or support an answer with clear math. Strong reasoning matters because it shows how the answer was found.

### Grade 5 Ideas That Show Up Again and Again

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, mixed numbers, and decimals
- perimeter, area, volume, and measurement conversions
- tables, line plots, patterns, and coordinate points
- geometry and multi-step real-world problem solving

**What strong WY-TOPP-style work looks like:** accurate math, readable steps, the right labels or units, and a final answer that really matches the question being asked.



# Table of Contents

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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) One fifth cup of flour is divided equally among 6 samples. Which division equation finds each share?

A.  $6 \div \frac{1}{5} = n$

B.  $\frac{1}{5} \div 6 = n$

C.  $\frac{1}{5} \times 6 = n$

D.  $6 + \frac{1}{5} = n$

2) A piece of string is 18.72 inches. A section of 9.48 inches is removed. What length remains?

A. 9.24 in

B. 8.76 in

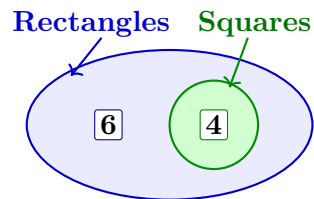
C. 9.34 in

D. 9.14 in

3) Find the volume:  $L = 10$  in,  $W = 5$  in,  $H = 2$  in. Include cubic inches in your answer.

*Record your answer in the space provided.*

4) A Venn diagram shows squares inside rectangles. There are 6 rectangles that are not squares and 4 squares. How many rectangles are shown in all?



A. 4

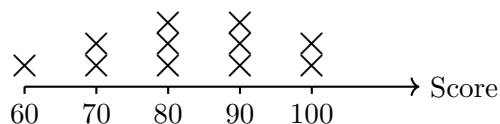
B. 6

C. 14

D. 10



5) The line plot shows test scores for a class:



How many students scored between 70 and 90 (inclusive)?

- A. 6 students                       C. 8 students  
 B. 7 students                       D. 9 students
- 6) A composite storage display is made from two non-overlapping rectangular prisms. Prism A is 6 feet long, 2 feet wide, and 3 feet tall. Prism B is 3 feet long, 5 feet wide, and 5 feet tall. What is the total volume?
- A. 36 cubic feet                       C. 111 cubic feet  
 B. 75 cubic feet                       D. 123 cubic feet
- 7) Find:  $2\frac{1}{4} \times 3$ .

*Record your answer in the space provided.*

8) Find the LCD of  $\frac{2}{9}$  and  $\frac{5}{12}$ . Which shows the correct pair?

- A.  $\frac{8}{36}$  and  $\frac{15}{36}$                        C.  $\frac{8}{36}$  and  $\frac{12}{36}$   
 B.  $\frac{6}{36}$  and  $\frac{15}{36}$                        D.  $\frac{4}{36}$  and  $\frac{5}{36}$



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1) A recipe is scaled up. The original calls for  $\frac{1}{6}$  cup sugar and  $\frac{1}{4}$  cup flour. To add both with a common denominator, which works?

A.  $\frac{2}{12}$  cup and  $\frac{3}{12}$  cup

C.  $\frac{3}{12}$  cup and  $\frac{4}{12}$  cup

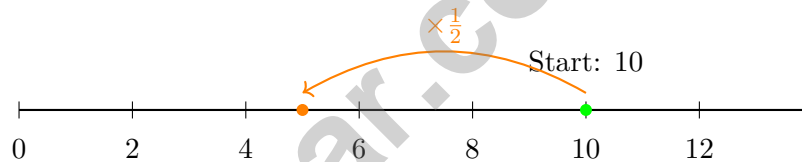
B.  $\frac{1}{12}$  cup and  $\frac{1}{12}$  cup

D.  $\frac{2}{24}$  cup and  $\frac{2}{24}$  cup

2) What is the x-coordinate of (5, 2)?

*Record your answer in the space provided.*

3)



If you multiply 10 by  $\frac{1}{2}$ , where does the product land on the number line?

A. At 5

C. At 20

B. At 10

D. At 0

4) A book costs \$12.95 and a pen costs \$2.50. If you buy 3 books and 5 pens, what is the total cost?

A. \$49.35

C. \$51.35

B. \$53.35

D. \$55.35



## 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 B is correct.** **(5.NF.F.7C)** The unit fraction is the amount being shared, so divide  $\frac{1}{5}$  by 6. The equation is  $\frac{1}{5} \div 6 = n$ .
- 2) **Choice A is correct.** **(5.NBT.D.7)** Line up decimal points and subtract place by place.  $18.72 - 9.48 = 9.24$  inches. This confirms the answer.
- 3) **The correct answer is 100 in<sup>3</sup>.** **(5.MD.I.5A)**  $10 \times 5 \times 2 = 100 \text{ in}^3$ .
- 4) **Choice D is correct.** **(5.G.K.4)** The squares are also rectangles, so the total number of rectangles is  $6 + 4 = 10$ .
- 5) **Choice C is correct.** **(5.MD.H.2)** At 70: 2 marks, At 80: 3 marks, At 90: 3 marks. Total between 70 and 90:  $2 + 3 + 3 = 8$  students.
- 6) **Choice C is correct.** **(5.MD.I.5A)** Find each part first: Prism A is  $6 \times 2 \times 3 = 36$  cubic feet, and Prism B is  $3 \times 5 \times 5 = 75$  cubic feet. Because the parts do not overlap, add them:  $36 + 75 = 111$  cubic feet.
- 7) **The correct answer is  $6\frac{3}{4}$ .** **(5.NF.F.5C)** Change  $2\frac{1}{4}$  to  $\frac{9}{4}$ . Then  $\frac{9}{4} \times 3 = \frac{27}{4} = 6\frac{3}{4}$ .
- 8) **Choice A is correct.** **(5.NF.F.5D)** LCD of 9 and 12 is 36.  $\frac{2}{9} = \frac{8}{36}$  and  $\frac{5}{12} = \frac{15}{36}$ .
- 9) **The correct answer is 9 ft<sup>3</sup>.** **(5.MD.I.5)** Box A has volume  $8 \times 4 \times 3 = 96$  cubic feet. Box B has volume  $7 \times 5 \times 3 = 105$  cubic feet, so Box B is greater by 9 cubic feet.
- 10) **Choice C is correct.** **(5.G.J.2)** Time in hours is on the x-axis, so the x-coordinate (6) represents 6 hours. The temperature was 72 degrees at 6 hours.
- 11) **Choice C is correct.** **(5.NBT.C.2)**  $12.5 \div 100 = 0.125$  and  $125 \div 1000 = 0.125$ . Both quotients are equal.
- 12) **Choice D is correct.** **(5.NBT.C.3A)** 42 out of 100 squares =  $\frac{42}{100} = 0.42$ , read as “forty-two hundredths”.
- 13) **The correct answer is 10.** **(5.OA.A.2)** The expression  $(45 - 9)$  is the original amount. Multiplying it by 10 makes 10 copies of that amount.
- 14) **Choice A is correct.** **(5.MD.G.1)** Convert 3 L to milliliters:  $3 \times 1000 = 3000$  mL. Since  $3000 > 2500$ , Container 1 has greater capacity.
- 15) **Choice A is correct.** **(5.OA.A.1)** Multiply first:  $4 \times 5 = 20$ . Then move left to right through the subtraction and addition:  $100 - 20 + 2 = 82$ .
- 16) **Choice C is correct.** **(5.NF.F.7)**  $8 \div \frac{1}{2} = 8 \times 2 = 16$ .
- 17) **Choice C is correct.** **(5.NBT.C.2)** The product is 9 followed by the six zeros from 1,000,000, so it has 6 zeros.
- 18) **Choice B is correct.** **(5.NF.F.6)**  $\frac{4}{7} \times \frac{7}{12} = \frac{28}{84}$ , which simplifies to  $\frac{1}{3}$  meter.
- 19) **Choices A, B are correct.** **(5.OA.B.3)** The 5th term is 16, and every pair of consecutive terms differs by 3. C should be 31, and D misnames the rule because this is an additive pattern.
- 20) **Choice D is correct.** **(5.NBT.C.2)**  $10^2 = 100$  can be shown as 1 hundred, 10 tens, or 100 ones.
- 21) **Choice A is correct.** **(5.MD.I.3)**  $10 \times 5 \times 2 = 100$  cu. in. Choice B:  $10 \times 2 \times 4 = 80$ . Choice C:  $5 \times 5 \times 3 = 75$ . Choice D:  $2 \times 2 \times 20 = 80$ .
- 22) **Choice C is correct.** **(5.NF.F.5B)**  $3 \times \frac{4}{9} = \frac{12}{9} = \frac{4}{3} = 1\frac{1}{3}$  (simplified by dividing by 3).
- 23) **Choice A is correct.** **(5.G.J.2)** Add 2: 0, 2, 4, 6, 8... Add 4: 0, 4, 8, 12, 16... Each term of “add 4” is 2 times “add 2”.
- 24) **Choice B is correct.** **(5.NF.E.2)** Common denominator 24:  $\frac{1}{3} = \frac{8}{24}$  and  $\frac{3}{8} = \frac{9}{24}$ . Total:  $\frac{8}{24} + \frac{9}{24} = \frac{17}{24}$  mile.
- 25) **Choice B is correct.** **(5.NBT.C.1)** One small square is one thousandth. Ten thousandths make one hundredth, so  $10 \times 0.001 = 0.01$ .
- 26) **Choice D is correct.** **(5.NF.F.5C)**  $\frac{2}{3} < 1$ , so  $7 \times \frac{2}{3} < 7 \times 1$ .
- 27) **Choice A is correct.** **(5.NF.E.1)**  $8 - 3 = 5$  and  $\frac{4}{6} - \frac{2}{6} = \frac{2}{6} = \frac{1}{3}$ . Simplified:  $5\frac{1}{3}$ .
- 28) **Choice B is correct.** **(5.MD.I.5A)**  $\frac{3}{4} \times \frac{2}{3} = \frac{6}{12} = \frac{1}{2}$ .
- 29) **Choice B is correct.** **(5.G.K.4)** A triangle with one  $90^\circ$  angle is classified as a right triangle.
- 30) **The correct answer is 4.4.** **(5.NBT.C.4)** Hundredths digit is 8, which rounds the tenths up:  $4.3 \rightarrow 4.4$ .
- 31) **Choice D is correct.** **(5.OA.B.3)** Cat is 3 times Dog:  $6 \div 2 = 3$ ,  $12 \div 4 = 3$ ,  $18 \div 6 = 3$ ,  $24 \div 8 = 3$ .



### Lab Notes for a Future Scientist

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#### Dear Curious Scientist,

◇ 4 tests. Many experiments. Tons of data. You've been running a research project on yourself, and the results are clear: you are better at math today than you were when you started. That's what science calls progress, and you earned it. ◇

★ **What scientists know:** a failed experiment is still useful data. Every problem you missed taught you something. You used that data to adjust, retry, and improve. That's how science works. That's how you've been working. ★

#### Lab Results

- **Hypothesis:** CONFIRMED. Effort + practice = real growth.
- **Method:** STRONG. You try strategies, observe what works, and adjust.
- **Data Collection:** CAREFUL. You read carefully and copy numbers exactly.
- **Conclusion:** CONFIDENT. You're test-ready.

**Scientist's tip:** curious minds make great test-takers. On test day, be curious about each question. Ask, "What is this asking?" Ask, "What's the smartest way?" Then experiment, observe, and answer. You will do great.

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 Scientist (Keep Questioning)

# 4 COMPLETE TESTS. CONFIDENCE. SUCCESS.



Give your child the practice and confidence they need to excel in **Grade 5 Math**. This book includes **4 full-length** practice tests designed to build skills, improve test readiness, and help students reach their full potential.

## WHAT'S INSIDE:



### 4 COMPLETE PRACTICE TESTS

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Practice consistently, reduce test anxiety, and achieve your best score!



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**Improve**  
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Essential  
Concepts



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