

# 10 COMPLETE

## Wyoming

# WY TOPP

# 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



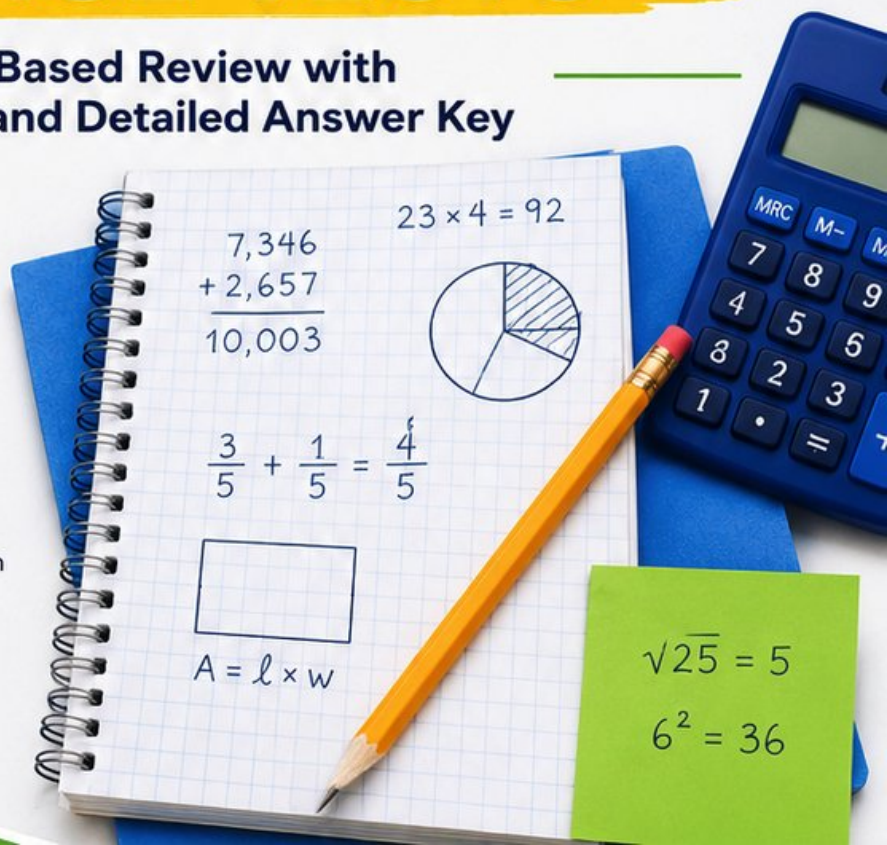
### Mixed Practice

Variety of question types to strengthen skills



### Detailed Answer Key

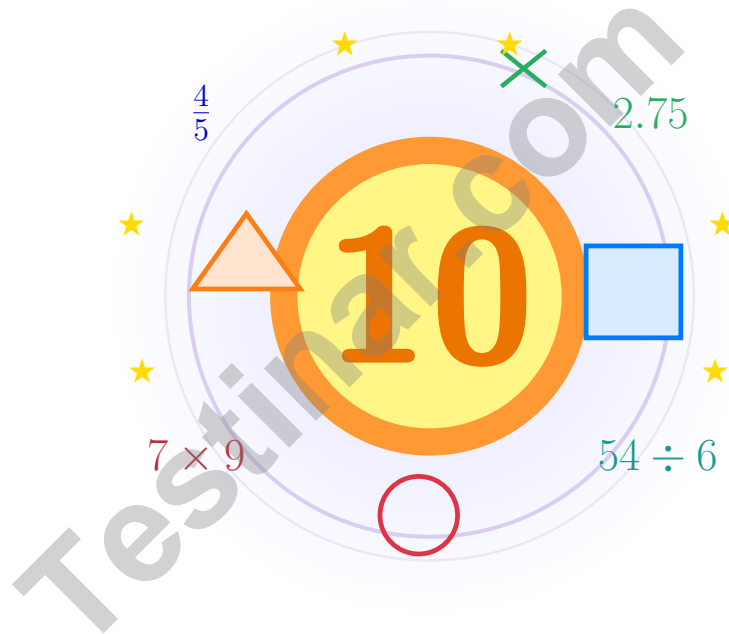
Step-by-step explanations for every question



PREPARE.  
PRACTICE.  
SUCCEED!

# 10 Wyoming WY-TOPP 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.



Scan me

# 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

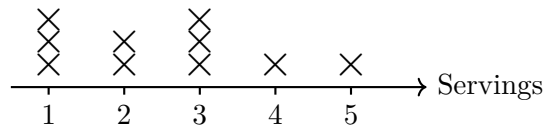
1 minute (min) = 60 seconds (sec)    1 week = 7 days

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

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



1) The line plot shows the number of servings of vegetables eaten per day:



What is the total number of servings eaten by all people?

- A. 25 servings                       C. 27 servings  
 B. 26 servings                       D. 28 servings
- 2) A gardener plants 12 rows of flowers with 100 flowers in each row. How many flowers does the gardener plant?

Rows	Flowers
12	100
<b>Total</b>	<b>?</b>

- A. 112                                       C. 1200  
 B. 1012                                     D. 12000



- 3) A bakery spent \$45.75 on flour. They also spent \$32.50 on sugar, \$18.25 on butter, and \$12.00 on yeast. What is the total amount spent on baking supplies?

Item	Cost
Flour	\$45.75
Sugar	\$32.50
Butter	\$18.25
Yeast	\$12.00
<b>Total</b>	<b>?</b>

- A. \$98.50
- B. \$128.50
- C. \$118.50
- D. \$108.50
- 4) A quadrilateral has 2 pairs of parallel sides. Which statement must be true?
- A. It has no parallel sides.
- B. It is a parallelogram.
- C. All sides are equal.
- D. All angles are right angles.



## 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	Metric
1 foot (ft) = 12 inches (in.)	1 meter (m) = 100 centimeters (cm)
1 yard (yd) = 3 feet (ft)	1 centimeter (cm) = 10 millimeters (mm)
1 yard (yd) = 36 inches (in.)	1 kilometer (km) = 1,000 meters (m)

### CAPACITY

Customary	Metric
1 cup (c) = 8 fluid ounces (fl oz)	1 liter (L) = 1,000 milliliters (mL)
1 pint (pt) = 2 cups (c)	
1 quart (qt) = 2 pints (pt)	
1 gallon (gal) = 4 quarts (qt)	

### WEIGHT AND MASS

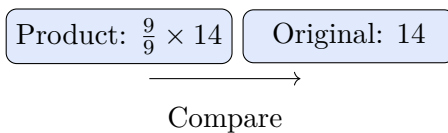
Customary	Metric
1 pound (lb) = 16 ounces (oz)	1 kilogram (kg) = 1,000 grams (g)
	1 gram (g) = 1,000 milligrams (mg)

### TIME

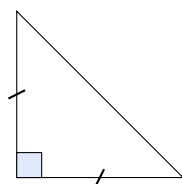
1 minute (min) = 60 seconds (sec)	1 week = 7 days
1 hour (hr) = 60 minutes (min)	1 year = 12 months
1 day = 24 hours (hr)	1 year = 52 weeks



1) Compare  $\frac{9}{9} \times 14$  to 14. Which is true?



- A. Product < Original                       C. Product > Original
- B. Cannot determine                       D. Product = Original
- 2) Look at the triangle below. How should it be classified?



- A. Isosceles obtuse                       C. Equilateral right
- B. Scalene acute                       D. Isosceles right
- 3) Compare:  $7 \times (40 - 10)$    $7 \times 40 - 7 \times 10$
- A. >                       C. =
- B. <                       D. Cannot tell
- 4) Subtract:  $4\frac{1}{8} - 2\frac{7}{8}$  (requires borrowing). Give the answer in simplest form.
- A.  $1\frac{1}{8}$                        C.  $2\frac{1}{8}$
- B.  $1\frac{1}{4}$                        D.  $2\frac{1}{4}$



40) Carol saw an expression on a sign:  $(250 + 75) \times 2$ . She reasoned the result must be more than  $250 + 75$  but less than what?

A. Less than  $250 + 75$

B. Less than  $3 \times (250 + 75)$

C. Less than  $\frac{1}{2} \times (250 + 75)$

D. Less than  $(250 + 75) \div 2$

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### End of Practice Test

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



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 A is correct.** **(5.MD.H.2)** Total:  $(1 \times 3) + (2 \times 2) + (3 \times 3) + (4 \times 1) + (5 \times 1) = 3 + 4 + 9 + 4 + 5 = 25$  servings.
- 2) **Choice C is correct.** **(5.NBT.C.2)**  $12 \times 100 = 1200$ . Append two zeros to 12.
- 3) **Choice D is correct.** **(5.MD.G.1)** Add all costs:  $45.75 + 32.50 + 18.25 + 12.00 = 108.50$ . The total is \$108.50.
- 4) **Choice B is correct.** **(5.G.K.3)** By definition, a parallelogram has 2 pairs of parallel sides. This includes rectangles, rhombuses, and general parallelograms.
- 5) **Choice B is correct.** **(5.G.J.1D)** The y-coordinate is 6. Half of 6 is 3, so the x-coordinate is 3. The ordered pair is (3, 6).
- 6) **Choice D is correct.** **(5.MD.I.5A)** Volume = length  $\times$  width  $\times$  height =  $5 \times 4 \times 3 = 60 \text{ cm}^3$ .
- 7) **Choice B is correct.** **(5.MD.I.5A)** The overlap region contains 3 shaded squares out of 20 total, so the area is  $\frac{3}{20}$ .
- 8) **Choice A is correct.** **(5.NF.F.5C)**  $\frac{3}{4} \times \frac{4}{5} = \frac{12}{20} = \frac{3}{5}$  acre.
- 9) **Choice B is correct.** **(5.NBT.D.6)**  $2,288 \div 52 = 44$  remainder 0 (divides evenly). Check:  $52 \times 44 = 2,288$ .
- 10) **Choice B is correct.** **(5.NF.F.7C)** The unit fraction is the amount being shared, so divide  $\frac{1}{9}$  by 3. The equation is  $\frac{1}{9} \div 3 = n$ .
- 11) **The correct answer is 180 cm<sup>3</sup>.** **(5.MD.I.5A)** The first prism has volume  $8 \times 5 \times 3 = 120$  cubic centimeters. The second has volume  $4 \times 5 \times 3 = 60$  cubic centimeters. Add them to get 180 cubic centimeters.
- 12) **Choice C is correct.** **(5.NBT.C.2)** The nonzero part  $4 \times 25$  makes 100, which has two zeros. The factor 400 adds two more zeros, so the product has 4 zeros.
- 13) **Choice D is correct.** **(5.NBT.D.7)**  $14.80 - 6.37 = 8.43$ . Borrow from ones place:  $14.80 - 6.37 = 8.43$ .
- 14) **Choice B is correct.** **(5.NF.F.7C)** Each whole contains 5 pieces of size  $\frac{1}{5}$ . With 3 wholes, there are  $3 \times 5 = 15$  pieces.
- 15) **Choice A is correct.** **(5.NF.E.2)** LCD = 24.  $\frac{5}{8} = \frac{15}{24}$ ,  $\frac{1}{3} = \frac{8}{24}$ ,  $\frac{15}{24} - \frac{8}{24} = \frac{7}{24}$ .
- 16) **Choice D is correct.** **(5.G.K.4)** A square is both a rectangle and a rhombus, so it belongs in the overlap.
- 17) **The correct answer is (4, 1).** **(5.G.J.2)** Start with (0, 0). After one step, A is 4 and B is 1, giving (4, 1).
- 18) **Choice A is correct.** **(5.MD.I.5)** Prism A has base area  $10 \times 8 = 80$  square centimeters, and  $240 \div 80 = 3$ , so its height is 3 cm. Prism B has base area  $12 \times 10 = 120$  square centimeters, and  $240 \div 120 = 2$ , so its height is 2 cm. Prism A has the greater height.
- 19) **Choice B is correct.** **(5.OA.B.3)** Keep doubling after 80: the 6th term is 160, and the 7th term is 320.
- 20) **Choices A, B are correct.** **(5.NF.E.2)**  $2\frac{1}{3} - 1\frac{1}{2} = \frac{5}{6}$  cup left, so A is true. Since  $\frac{5}{6}$  is less than 1, B is also true. C miscomputes; D is false.
- 21) **Choice B is correct.** **(5.MD.I.4)** A prism with height 1 has one layer. The layer is  $5 \times 3 = 15$  cubes, so the box contains 15 unit cubes.
- 22) **Choice C is correct.** **(5.NF.F.7)**  $5 \div \frac{1}{3} = 5 \times 3 = 15$ . She uses 15 batches.
- 23) **Choice C is correct.** **(5.NBT.C.2)**  $7 \times 10^5 = 7 \times 100000 = 700000$  meters.
- 24) **Choice C is correct.** **(5.MD.I.5)** Use the rectangular-prism volume formula:  $5 \times 5 \times 4 = 100$ . So the volume is 100 cubic feet.
- 25) **Choice B is correct.** **(5.OA.A.2)** A box has 12 bags, and each bag has 8 crayons. That means there are 12 equal groups of 8, which is represented by  $12 \times 8$ .
- 26) **Choice A is correct.** **(5.NBT.C.3B)** All ones digits are equal. Compare tenths and hundredths:  $1.22 > 1.21 > 1.20 > 1.02$ , and 1.2 has the same value as 1.20.
- 27) **Choice A is correct.** **(5.NBT.D.5)** Multiply:  $347 \times 5 = (300 \times 5) + (40 \times 5) + (7 \times 5) = 1,500 + 200 + 35 = 1,735$ .
- 28) **Choice C is correct.** **(5.NF.F.5C)**  $10 \times \frac{3}{2} = 15$ . The product is greater than 10 because the scaling factor  $\frac{3}{2}$  is greater than 1.
- 29) **Choice C is correct.** **(5.G.K.4)** An equilateral triangle has all angles equal to 60 degrees (acute). It cannot be obtuse. All other pairs are possible.
- 30) **The correct answer is  $5\frac{9}{10}$ .** **(5.NF.E.1)**  $3 + 2 = 5$ .  $\frac{4}{10} + \frac{5}{10} = \frac{9}{10}$ . Total:  $5\frac{9}{10}$ .



## Strong Climber, Listen Up!

◇ You did it. You climbed all 10 practice tests like a steady mountain climber—one foothold, one breath, one step at a time. The view from the top is wonderful because you earned it. Test day is the next peak, and you are stronger than the climber you were when you started. ◇

★ **Here is what mountain guides teach:** pacing matters more than speed. Take steady steps. Check your footing. Keep your eyes on the path. The same wisdom helps on a math test: read carefully, work calmly, and check your work before you move on. ★

### Climber's Field Notes

- **Endurance:** STRONG! You can finish a long climb without losing focus.
- **Footwork:** STEADY! Your steps (your steps in problem-solving) are reliable.
- **Map Reading:** CLEAR! You read questions carefully before you start.
- **Summit Mindset:** READY! You know how to push through the last stretch.

**Field tip:** on test day, take small breaths between problems. Each problem is a foothold. Take it. Move on. Take the next. That is how mountains get climbed—and how tests get conquered.

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 Guide (Onward and Upward)

# 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**

- ✓ 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!



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