

$\frac{2}{3}$

0,25



%

FULL-LENGTH

Wyoming

★★★★★
Aligned to State Standards

WY TOPP

MATH

Grade

5

$\frac{2}{4}$

$7 \times 8 =$



7×8

$56 \div 7$

$(a+b)^2$

PRACTICE TESTS

Complete State Standards Review
with Answer Key and
Essential Math Skills Practice



3 Full-Length Practice Tests
Aligned to State Standards



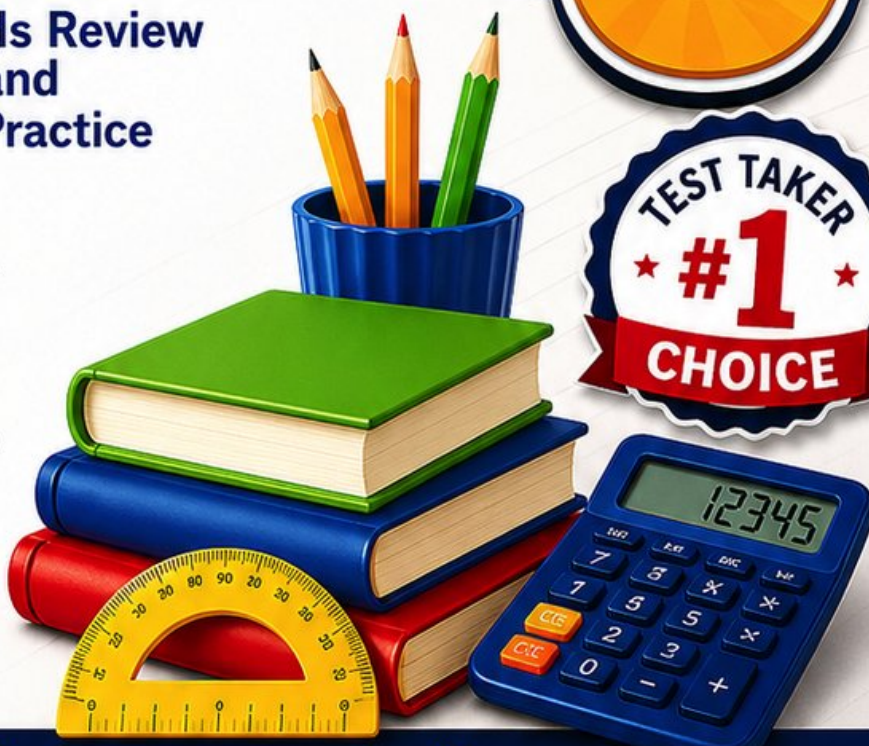
Covers All Grade 5 Math Topics
Numbers & Operations, Fractions,
Decimals, Geometry, Measurement,
Data & Problem Solving



Build Confidence
Strengthen Skills • Improve Accuracy
• Boost Test Readiness



Detailed Answer Key
Step-by-Step Explanations
for All Questions



WRITTEN FOR
GRADE 5 STUDENTS



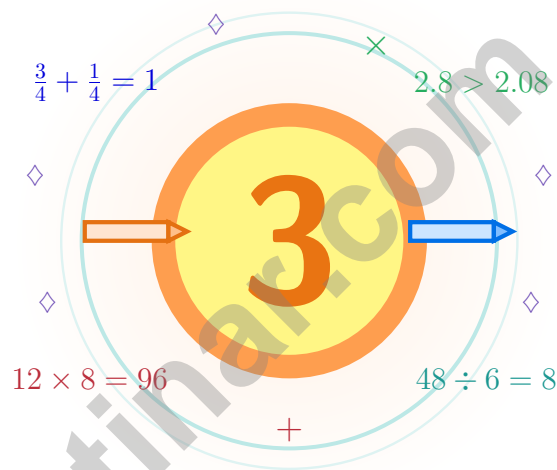
PERFECT FOR
TEST PREP & REVIEW



CLASSROOM, HOME,
OR SELF-STUDY USE

3 Wyoming WY-TOPP Grade 5 Math Practice Tests

Wide-range math for thinkers who notice everything



Three full tests, a friendly quick review, smart strategy pages, and student-tested support that help Grade 5 mathematicians from The Equality State walk in ready to think.

Jay Daie and Reza Nazari



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Open the Door, Wyoming – Math Awaits

Wide-range math for thinkers who notice everything

An Invitation to Grade 5 in Wyoming

Math is a lot like Yellowstone – full of patterns, surprises, and steady eruptions of insight if you watch closely.

Some questions will feel easy from the very first read. Others will ask you to pause, sketch, estimate, or try again. That is not a problem. That is practice doing exactly what it should do. Every honest attempt grows your math brain a little stronger.

Read

Read with care – math problems hide their gifts.

Try

Try a strategy that fits the size of the numbers.

Reflect

Reflect after each problem to lock the lesson in.

A Wyoming promise to yourself: I will watch each problem like Old Faithful – patient, ready, and trusting that the right step will arrive.

A Simple Path Through This Book

A simple game plan that turns practice into real progress

Step 1: Notice

Notice the structure: warm-up, test, review.

Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Practice

Practice one full test under quiet conditions.

Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Honest Check

Check honestly without rushing.

Circle missed questions, sort out what went sideways, and notice which skills are calling for more attention.

Step 4: Polish

Polish the rough spots before test number two.

Read the explanation, fix the work, and carry that lesson forward into the next test.

Practice Plan for Wyoming Grade 5

Week 1	Test 1 is your map-making week.
Week 2	Test 2 is your fix-it week.
Week 3	Test 3 is your show-up-strong week.



Scan me

Inside the Practice Tests

What these 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 getting answers right. Students are practicing how to read with care, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every single day.

Selected-Response Questions

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

Constructed-Response Questions

Students show their steps, explain a method, or back up an answer with clear math. Clean reasoning matters because it shows how the answer was actually 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
- line plots, tables, numerical patterns, and coordinate points
- geometry and multi-step real-world problems

What strong work looks like on the WY-TOPP: the math is correct, the steps are readable, the labels and units match the problem, and the final answer truly answers 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) Which pair has two expressions that both equal 5000?

A. 40×10 and 4×100

C. 50×100 and 500×10

B. 40×10 and 4×1000

D. 30×1000 and 3×10000

2) Rule A starts at 0 and adds 1. Rule B starts at 0 and adds 3. If 0 is the first term in each pattern, what is the 5th ordered pair (A, B) ?

A. $(5, 3)$

C. $(4, 12)$

B. $(5, 15)$

D. $(3, 5)$

3) A recipe needs $\frac{2}{3}$ cup flour and $\frac{1}{4}$ cup cocoa. How much dry ingredients in all?

Record your answer in the space provided.

4) A video game has a goal to earn $\frac{18}{24}$ of the coins. In simplest form, what fraction of coins is this?

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

C. $\frac{3}{4}$

B. $\frac{2}{3}$

D. $\frac{4}{5}$

5) How many pints are in 3 quarts?

A. 3 pints

C. 8 pints

B. 4 pints

D. 6 pints



6) Tamara runs $\frac{3}{4}$ of a 12-mile trail. Does she run more or less than 12 miles?

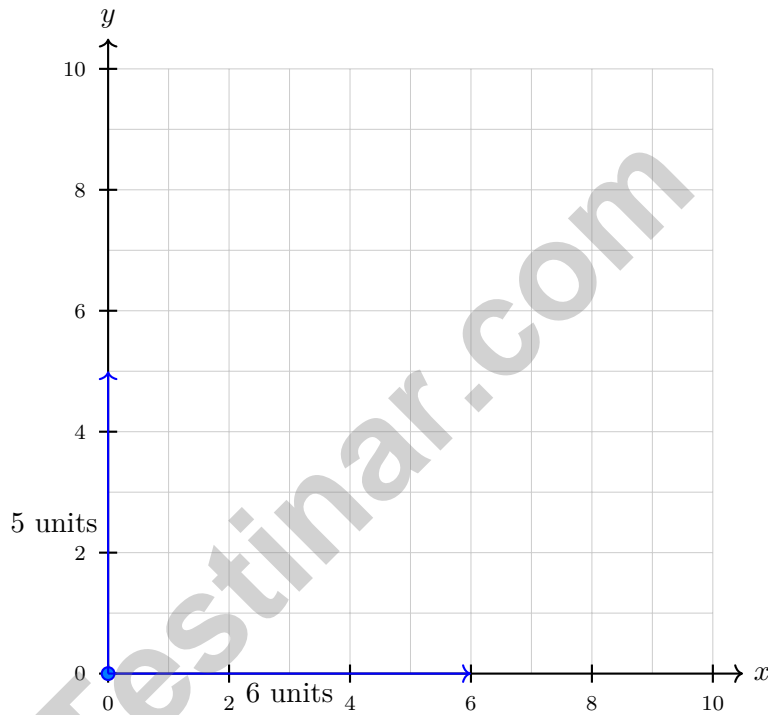
A. More than 12 miles

C. Exactly 12 miles

B. Less than 12 miles

D. Cannot be determined

7) A rectangle has one vertex at the origin. It is 6 units wide and 5 units tall. Which ordered pair names the opposite vertex?



A. (5, 6)

C. (6, 5)

B. (6, 0)

D. (0, 5)



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1) Which division has a quotient of 45 with a remainder of 2?

A. $902 \div 20$

C. $721 \div 16$

B. $676 \div 15$

D. $585 \div 13$

2) Compare without calculating: 6×20 12×10

A. $>$

C. $=$

B. $<$

 D. Cannot tell

3) A composite storage display is made from two non-overlapping rectangular prisms. Prism A is 4 centimeters long, 2 centimeters wide, and 3 centimeters tall. Prism B is 3 centimeters long, 3 centimeters wide, and 5 centimeters tall. What is the total volume?

A. 69 cubic centimeters

C. 45 cubic centimeters

B. 24 cubic centimeters

D. 77 cubic centimeters

4) Find: $\frac{7}{8} \times 4$.

Record your answer in the space provided.

5) A rectangular prism has dimensions 15 cm, 12 cm, and 10 cm. It is split into two equal non-overlapping parts. What is the original volume, and what is the volume of each part?

A. Original: $1,800 \text{ cm}^3$; each part: 900 cm^3

C. Original: $1,800 \text{ cm}^3$; each part: $1,800 \text{ cm}^3$

B. Original: 900 cm^3 ; each part: 450 cm^3

D. Original: 37 cm^3 ; each part: 18.5 cm^3



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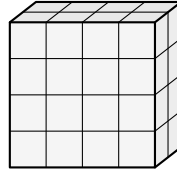
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- 1) A box needs 32 unit cubes to be filled. It is 4 units long and 2 units wide. What must its height be?



- A. 3 units C. 4 units
 B. 7 units D. 2 units
- 2) A triangle has one angle of 95 degrees, one angle of 50 degrees, and one angle of 35 degrees. Classify it based on its angles.

- A. Acute C. Equilateral
 B. Right D. Obtuse

- 3) What is 10^1 ?

- A. 1 C. 100
 B. 11 D. 10

- 4) Find the difference: $7\frac{3}{5} - 3\frac{1}{2}$.

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 scores.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(5.NBT.C.2)** Both equal 5000: $50 \times 100 = 5000$ and $500 \times 10 = 5000$.
- 2) **Choice C is correct.** **(5.G.J.2)** Since 0 is the first term, the first five A-values are 0, 1, 2, 3, 4 and the first five B-values are 0, 3, 6, 9, 12. The 5th ordered pair is (4, 12).
- 3) **The correct answer is $\frac{11}{12}$.** **(5.NF.E.2)** LCD 12: $\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$.
- 4) **Choice C is correct.** **(5.NF.F.5D)** The GCF of 18 and 24 is 6. Divide both by 6: $\frac{18}{24} = \frac{18 \div 6}{24 \div 6} = \frac{3}{4}$.
- 5) **Choice D is correct.** **(5.MD.G.1)** Since 2 pints = 1 quart, multiply 3 by 2: $3 \times 2 = 6$ pints.
- 6) **Choice B is correct.** **(5.NF.F.5C)** $12 \times \frac{3}{4} = 9$ miles. Since $\frac{3}{4} < 1$, the product is less than 12.
- 7) **Choice C is correct.** **(5.G.J.2)** Starting at the origin, move 6 units right for the x -coordinate and 5 units up for the y -coordinate. The opposite vertex is (6, 5).
- 8) **Choice A is correct.** **(5.MD.I.4)** Bottom: 9 cubes. Second layer: 6 cubes. Total: $9 + 6 = 15$ unit cubes.
- 9) **Choice A is correct.** **(5.NBT.C.2)** Dividing by 1,000 moves the decimal 3 places left: $356 \div 1,000 = 0.356$.
- 10) **Choice D is correct.** **(5.NBT.D.7)** Line up decimal points and subtract place by place. $12.50 - 8.75 = 3.75$ miles. This confirms the answer.
- 11) **Choice D is correct.** **(5.NBT.C.2)** The factors 5 and 2 make 10, and then multiplying by another 10 makes 100. The product has 2 zeros.
- 12) **Choice A is correct.** **(5.NBT.D.5)** Use place value: $112 \times 4 = (100 \times 4) + (10 \times 4) + (2 \times 4) = 400 + 40 + 8 = 448$ seats.
- 13) **Choice B is correct.** **(5.MD.H.2)** Count the X marks above each shoe size. Size 3 has 4 X marks, which is more than any other size.
- 14) **Choice A is correct.** **(5.NF.E.1)** $\text{LCM}(5,4) = 20$. $\frac{2}{5} = \frac{8}{20}$ and $\frac{1}{4} = \frac{5}{20}$. $\frac{8}{20} + \frac{5}{20} = \frac{13}{20}$.
- 15) **Choice C is correct.** **(5.OA.A.2)** Choice C translates correctly: the product of 2 and 8 is 2×8 , and 5 more gives $2 \times 8 + 5$. The other pairs change the grouping or order.
- 16) **Choice B is correct.** **(5.MD.G.1)** Total: $410 + 395 + 405 + 390 = 1,600$ meters = 1.6 kilometers.
- 17) **Choice B is correct.** **(5.G.K.3)** A rhombus is a quadrilateral with four equal sides. It does not have to have four right angles.
- 18) **Choice C is correct.** **(5.G.J.2)** The first coordinate, 15, matches the x -axis label: minutes played. The second coordinate, 450, matches the y -axis label: score. So the point means score is 450 when minutes played is 15.
- 19) **Choice A is correct.** **(5.NBT.D.6)** $1,232 \div 16 = 77$ pounds per animal. Check: $16 \times 77 = 1,232$.
- 20) **Choice A is correct.** **(5.NBT.C.1)** Each decimal place is 10 times the value of the next place to the right. So hundredths (0.01) is 10 times greater than thousandths (0.001).
- 21) **Choices A, B are correct.** **(5.NF.F.6)** Multiply numerators and denominators: $\frac{3}{4} \cdot \frac{4}{5} = \frac{12}{20} = \frac{3}{5}$. Choice C adds instead of multiplying, and D is not true.
- 22) **Choice A is correct.** **(5.OA.B.3)** Pattern P is 8 times Pattern O: $1 \times 8 = 8$, $2 \times 8 = 16$, $3 \times 8 = 24$, $4 \times 8 = 32$.
- 23) **Choice B is correct.** **(5.NF.F.7C)** Each whole contains 8 pieces of size $\frac{1}{8}$. With 2 wholes, there are $2 \times 8 = 16$ pieces.
- 24) **Choice C is correct.** **(5.OA.A.1)** Inside the brackets, handle the parentheses first: $8 \div 4 = 2$. Now the bracket is $[15 + 2] = 17$, and $17 \times 2 = 34$.
- 25) **The correct answer is $\frac{2}{5}$.** **(5.MD.I.5A)** $3 \times 5 = 15$ small parts; overlap is $2 \times 3 = 6$, giving $\frac{6}{15} = \frac{2}{5}$.
- 26) **Choice D is correct.** **(5.NBT.C.2)** $10^3 = 1,000$, so $6,800 \div 1,000 = 6.8$.
- 27) **Choice B is correct.** **(5.G.K.4)** The family tree shows squares inside rectangles, so every square is a rectangle. A rectangle does not have to have 4 equal sides, so it does not have to be a square.
- 28) **Choice C is correct.** **(5.MD.I.5)** The base area is $14 \times 5 = 70$ square inches. Since $420 \div 70 = 6$, the height is 6 in.
- 29) **The correct answer is 60.** **(5.MD.G.1)** $0.6 \times 100 = 60$ cm. Multiplying by 100 changes meters into centimeters.
- 30) **Choice C is correct.** **(5.NBT.D.7)** 0.3×0.7 : Multiply $3 \times 7 = 21$. Both factors have 1 decimal place each, so total is $1 + 1 = 2$ places: 0.21, not 2.1.



A Mentor's Quiet Encouragement

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. 3 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 3 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. I'd love to hear from you!

Jay Daie

Your Math Mentor (Quietly Cheering)

Build Skills. Boost Confidence. Excel on the Grade 5 Math Test.

Help your child succeed with confidence! This book includes **3 full-length Grade 5 Math practice tests** aligned to state standards. With a focus on essential skills, problem solving, and test readiness, it's the perfect resource for classroom, home, or on-the-go practice.



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3 Full-Length Grade 5 Math Practice Tests

Realistic test format to build familiarity and confidence.



Covers All Essential Math Topics

Fractions, decimals, geometry, measurement, data, number operations, and more.



Build Strong Math Skills

Strengthen understanding and problem-solving through varied question types.



Detailed Answer Key

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- ✓ Improve accuracy and speed
- ✓ Reduce test anxiety
- ✓ Achieve your best score!



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