

5

FULL-LENGTH

Wyoming

WY TOPP

GRADE 5 MATH

★ PRACTICE TESTS ★



**5 FULL-LENGTH
PRACTICE TESTS**



**COMPLETE
STANDARDS
REVIEW**



**SKILL PRACTICE,
WORD PROBLEMS,
AND MORE!**

$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$



$$12 \times 3 = 36$$



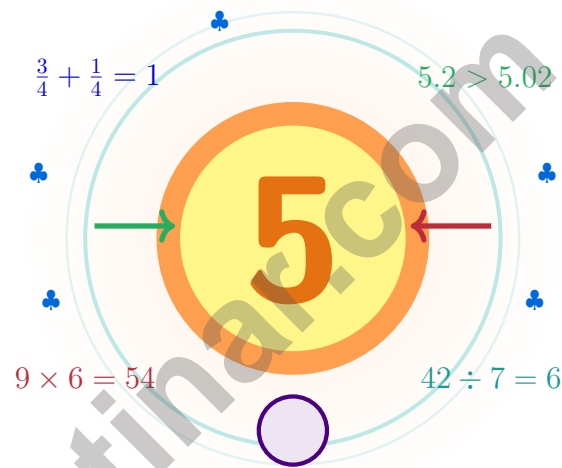
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 Wyoming WY-TOPP Grade 5 Math Practice Tests

A five-checkpoint trail built for steady, brave thinking



Five full tests, a friendly quick review, smart strategy pages, and student-tested support that turn Grade 5 practice in The Equality State into a steady quest of real growth.

Jay Daie and Reza Nazari



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Wyoming Mathematicians, the Quest Awaits

A five-checkpoint trail built for steady, brave thinking

An Invitation to Grade 5 in Wyoming

This book is your practice zone, not a place to be perfect. Each of the five tests gives you a chance to notice clues, choose a strategy, check your thinking, and come back stronger for the next round. Math is a lot like Yellowstone – full of patterns, surprises, and steady eruptions of insight if you watch closely.

Some questions will feel easy right away. Some will make you slow down, draw, estimate, or retry. That is excellent news. It means your math brain is doing real work.

See

See the whole question
before you start the
math.

Plan

Plan one careful step
before the next.

Reflect

Reflect on what worked
and what wobbled.

A strong quest habit for Wyoming: slow down, write neatly, estimate before you solve, and keep going even when a problem looks tricky at first. That is exactly how confident math students are built.

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A Simple Path Through Five Tests

A simple routine that turns five tests into real growth

Step 1: Open

Open the warm-up review and use it.

Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Test

Take the test with steady focus.

Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Reflect

Notice what was sharp and what was shaky.

Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Sharpen

Practice the shaky skills before the next round.

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

A Five-Week Wyoming Quest Map

Week	Mission Focus
Week 1	Take Test 1 like a wide Wyoming sunrise.
Week 2	Take Test 2 and notice one habit that grew steadier.
Week 3	Take Test 3 and lift fractions, decimals, and conversions.
Week 4	Take Test 4 and slow down on multi-step problems.
Week 5	Take Test 5 with calm, careful, geyser-steady focus.



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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.)

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

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1 quart (qt) = 2 pints (pt)

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Metric

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WEIGHT AND MASS

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1) What is $9 \times \frac{1}{3}$?

A. $\frac{9}{4}$

B. 3

C. $\frac{1}{27}$

D. $\frac{1}{3}$

2) Estimate each expression. Which sum is closest to 1?

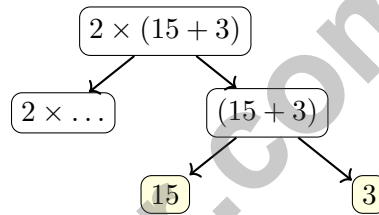
A. $\frac{1}{15} + \frac{2}{17}$

B. $\frac{1}{2} + \frac{1}{3}$

C. $\frac{7}{8} + \frac{6}{7}$

D. $\frac{9}{10} + \frac{8}{9}$

3) A tree diagram breaks down the expression $2 \times (15 + 3)$. Which labels the product of 15 and 3?



A. $2 \times \dots$

B. $(15 + 3)$

C. 15

D. This expression has no product of 15 and 3

4) Write 95×10^2 as a whole number.

A. 95

B. 950

C. 9500

D. 95000

5) Evaluate: $\{ [6 \times (4 + 1)] \div 2 \}$

A. 10

B. 12

C. 15

D. 30



6) How many zeros are in the product 20×50 ?

A. 1

B. 2

C. 3

D. 4

7) The output is 3 times the input, then 1 more. Find the ordered pair when the input is 0:

A. (0, 0)

B. (0, 1)

C. (0, 3)

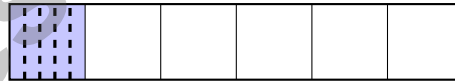
D. (1, 0)

8) A box is 7 cubes long, 2 cubes wide, and 3 cubes tall. What is its volume in cubic units?

Record your answer in the space provided.

9) The model shows $\frac{1}{6}$ of a whole split into 5 equal parts. What fraction of the whole is each small part?

$\frac{1}{6}$ split into 5



1 whole split into 6 equal parts

A. $\frac{1}{11}$

B. $\frac{1}{6}$

C. $\frac{1}{5}$

D. $\frac{1}{30}$



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1) A rectangular prism has a volume of 432 in^3 . If length is 18 inches and height is 8 inches, what is the width?

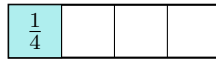
A. 2 inches

C. 4 inches

B. 3 inches

D. 5 inches

2) Area model for $\frac{1}{4}$ of a rectangle with width 4:



Total width = 4

What is $\frac{1}{4}$ of a width of 4 units?

A. 1

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

B. 2

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

3) How many right angles does a rectangle have?

Record your answer in the space provided.

4) Marcus reads $\frac{2}{10}$ of a book on Monday and $\frac{5}{10}$ on Tuesday. What fraction does he read in total?

A. $\frac{3}{10}$

C. $\frac{7}{10}$

B. $\frac{5}{10}$

D. $\frac{10}{10}$



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- 1) A rectangular prism has volume 280 in^3 and dimensions $10 \text{ in} \times 7 \text{ in} \times ?$. What is the missing dimension?
- A. 2 in C. 4 in
 B. 3 in D. 5 in
- 2) What is 4.2×100 ?
- A. 4.2 C. 420
 B. 42 D. 4,200
- 3) A storage room is 18 feet long, 12 feet wide, and 10 feet tall. If identical boxes each occupy 360 cubic feet and exactly fill the room with no gaps or overlaps, how many boxes fit in the storage room?
- A. 4 boxes C. 8 boxes
 B. 6 boxes D. 10 boxes
- 4) Using the standard order of operations, what is the value of $48 \div (6 + 2) \times 3$?
- A. 2 C. 18
 B. 6 D. 24
- 5) Estimate: $14\frac{1}{7} - 8\frac{4}{5}$.
- A. About 5 C. About 7
 B. About 6 D. About 8
- 6) A step-shaped solid is decomposed into three non-overlapping prisms with volumes 54 cubic inches, 36 cubic inches, and 24 cubic inches. What is the total volume?

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.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice B is correct.** **(5.NF.F.5B)** $9 \times \frac{1}{3} = \frac{9}{3} = 3$.
- Choice B is correct.** **(5.NF.E.2)** $\frac{1}{2} + \frac{1}{3}$ is about $\frac{1}{2} + \frac{1}{2} = 1$. Choice A is much closer to 0, while choices C and D are greater than 1.
- Choice D is correct.** **(5.OA.A.2)** The tree shows 15 and 3 being added inside $(15 + 3)$. The multiplication is by 2, so there is no product of 15 and 3 in this expression.
- Choice C is correct.** **(5.NBT.C.2)** A power of 10 tells how many factors of 10 to use. $95 \times 10^2 = 95 \times 100 = 9500$. This confirms the answer.
- Choice C is correct.** **(5.OA.A.1)** Simplify the parentheses first: $4 + 1 = 5$. Then evaluate inside the brackets: $6 \times 5 = 30$. Finally, $30 \div 2 = 15$.
- Choice C is correct.** **(5.NBT.C.2)** Think of 20 as 2 tens and 50 as 5 tens. Since $2 \times 5 = 10$, the product becomes 1,000, which has 3 zeros.
- Choice B is correct.** **(5.G.J.2)** With input 0, the multiplication part is $3 \times 0 = 0$, and $0 + 1 = 1$.
- The correct answer is 42.** **(5.MD.I.4)** A 7 by 2 layer has 14 cubes. With 3 layers, $14 \times 3 = 42$ cubic units.
- Choice D is correct.** **(5.NF.F.7C)** Start with one unit fraction, $\frac{1}{6}$, and share it into 5 equal parts. Each part is $\frac{1}{6} \div 5 = \frac{1}{30}$ of the whole.
- Choice D is correct.** **(5.G.J.2)** The four vertices form a quadrilateral with four right angles. The width is 4 units and the height is 3 units. Since the sides are not all equal, it is a rectangle, not a square.
- Choice C is correct.** **(5.NF.E.2)** $\frac{1}{4} + \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$. Both ate equal amounts, so together they ate half the bar.
- Choice C is correct.** **(5.MD.I.3)** Original: $4 \times 3 \times 4 = 48$. Remove one layer: height becomes 3. New volume: $4 \times 3 \times 3 = 36$ cubic units.
- Choice A is correct.** **(5.NBT.D.6)** $288 \div 12 = 24$ pencils per classroom. Check: $12 \times 24 = 288$.
- Choice B is correct.** **(5.OA.B.3)** Pencils = 5 × Students: $3 \times 5 = 15$, $6 \times 5 = 30$, $9 \times 5 = 45$, $12 \times 5 = 60$.
- Choice D is correct.** **(5.NBT.D.7)** Line up decimal points and subtract place by place. $15.50 - 8.25 = 7.25$ dollars. This confirms the answer.
- Choice D is correct.** **(5.NF.F.7C)** The size of each group is $\frac{1}{4}$ yard. $6 \div \frac{1}{4} = 6 \times 4 = 24$ beds.
- Choice C is correct.** **(5.MD.I.5)** Use the rectangular-prism volume formula: $8 \times 5 \times 5 = 200$. So the volume is 200 cubic feet.
- Choice B is correct.** **(5.MD.I.5A)** Volume = base area × height = $(8 \times 7) \times 6$.
- Choice B is correct.** **(5.OA.A.1)** Four jumps of 6 land at $4 \times 6 = 24$. Backing up 4 more gives $24 - 4 = 20$.
- The correct answer is $4\frac{1}{4}$ feet.** **(5.MD.H.2)** $3 \times \frac{3}{4} + 2 \times \frac{1}{2} + 1 = 2\frac{1}{4} + 1 + 1 = 4\frac{1}{4}$ feet.
- Choices A, B are correct.** **(5.MD.G.1)** Convert first: 3 L is 3,000 mL. Since $3000 \div 250 = 12$, 12 glasses fill the pitcher; C and D use the wrong count or conversion.
- Choice A is correct.** **(5.NF.F.5C)** Each row shows one group of $1\frac{1}{2}$. Four groups make $4 \times 1\frac{1}{2} = 4 \times \frac{3}{2} = \frac{12}{2} = 6$.
- Choice A is correct.** **(5.G.K.4)** All three angles are less than 90° , so the triangle is acute. All three side lengths are different, so it is scalene.
- The correct answer is rectangle.** **(5.G.K.4)** A square has all the properties of a rectangle: four right angles and two pairs of opposite sides that are parallel. A square is a special type of rectangle.
- Choice B is correct.** **(5.NF.E.1)** Borrow 1 from 5: $4\frac{7}{6} - 2\frac{5}{6} = 2\frac{2}{6}$.
- Choice B is correct.** **(5.MD.G.1)** Since 1 pound = 16 ounces, divide 16 by 8: $16 \div 8 = 2$ packages.
- Choice C is correct.** **(5.MD.G.1)** 1 centimeter = 10 millimeters. Multiply: $25 \times 10 = 250$ mm.
- Choice C is correct.** **(5.NBT.C.2)** Following the pattern, $1.2 \times 1000 = 1200$ (move decimal 3 places right).
- Choice A is correct.** **(5.NBT.D.7)** Hundredths: $8 + 6 = 14$ (regroup 1 tenth); tenths: $3 + 4 + 1 = 8$; ones: $5 + 2 = 7$. The chart shows 7 ones, which is correct.
- Choice D is correct.** **(5.NF.F.5C)** Check each: A is $\frac{1}{6}$ not $\frac{1}{5}$. B is $\frac{4}{9}$ not $\frac{4}{6}$. C is $\frac{3}{16}$ not $\frac{4}{16}$. D is correct.



Greetings, Mathematical Composer!

★ Beautiful composition! You've written five complete mathematical symphonies, carefully arranging mathematical notes, creating harmonious solutions, and expressing elegant problem-solving like a master composer! Each problem was a musical piece requiring rhythm, structure, and creative expression. Your mathematical compositions have reached professional quality! ★

◇ **Here's what renowned composers understand:** creating beautiful music requires understanding musical theory, practicing techniques, and developing personal style. They compose numerous pieces, refining their craft with each creation. You've done exactly that through these five tests! Each test was a new composition, and you've developed your unique mathematical voice! ◇

Musical Review of Compositions

- **Melody Creation:** Your solution paths flow smoothly and logically!
- **Harmonic Balance:** You combine different methods beautifully!
- **Rhythm Precision:** You maintain steady pacing throughout tests!
- **Performance Ready:** Your compositions are ready for the grand concert!

Remember this musical truth: great composers trust their instincts when performing. After five complete compositions, your mathematical instincts are finely tuned. On test day, let your knowledge flow naturally like music. Don't overthinktrust the beautiful mathematical melodies you've composed through practice!

Want to share a particularly elegant mathematical composition or discuss solution harmonies? Send your musical works to reza@testinar.com. I appreciate mathematical artistry!

Reza Nazari & Jay Daie

Your Math Coaches for Calm Test-Day Thinking

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Build confidence and master math with **5 full-length** practice tests designed to reflect the real test experience. This book provides the practice, review, and support students need to succeed in Grade 5 and beyond!

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with consistent
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