

4

COMPLETE

Utah RISE

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**



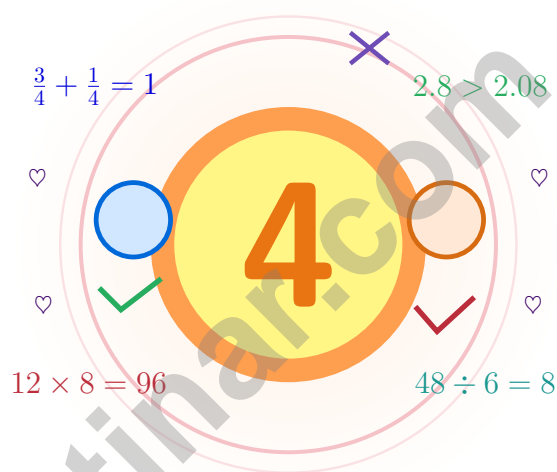
**PERFECT FOR
CLASSROOM,
HOME, OR
SELF-STUDY**



**ALIGNED TO
UTAH
STATE STANDARDS
(RISE)**

4 Utah RISE Grade 5 Math Practice Tests

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



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

Jay Daie and Reza Nazari



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Suit Up, Utah – Four-Test Mission

Four full practice tests and the habits that carry you to the real one

To Utah Students Who Love a Puzzle

This book gives you four chances to read closely, solve carefully, and level up your math thinking. Math is like a beehive – one careful step alone is small, but together they build something amazing.

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.

Look

Look at the problem like a careful detective.

Test

Test your idea one careful step at a time.

Repair

Repair what was off and try the next one.

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

How This Book Wants to Help

A four-step routine that turns practice into real improvement

Step 1: Read

Read the quick review pages first.
Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Try

Try one full test with full attention.
Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Reflect

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

Step 4: Lift

Lift those skills before the next test.
Read the explanation, fix the work, and carry that lesson into the very next test.

A Four-Week Utah Mission Map

Week	Mission Focus
Week 1	Take Test 1 like the first careful step in a beehive.
Week 2	Take Test 2 and lift word problems and clear writing.
Week 3	Take Test 3 to polish fractions, decimals, and conversions.
Week 4	Take Test 4 with calm, careful focus from start to honey-finished finish.



Scan me

Inside the Four Practice Tests

What these four practice tests help Grade 5 students build

These three practice tests prepare Grade 5 students in the Beehive State for the Utah RISE with the steady focus of a long red-rock morning. 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 RISE-style work looks like: accurate math, readable steps, the right labels or units, and a final answer that really matches the question being asked.



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Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

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Area of Triangle $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism $V = l \times w \times h$

LENGTH

Customary

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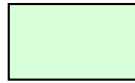
1 day = 24 hours (hr) 1 year = 52 weeks



1) Look at the two quadrilaterals. Which property do they NOT share?

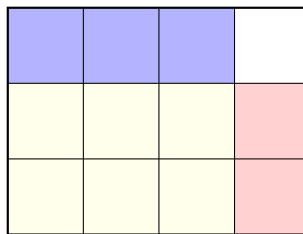


Square



Rectangle

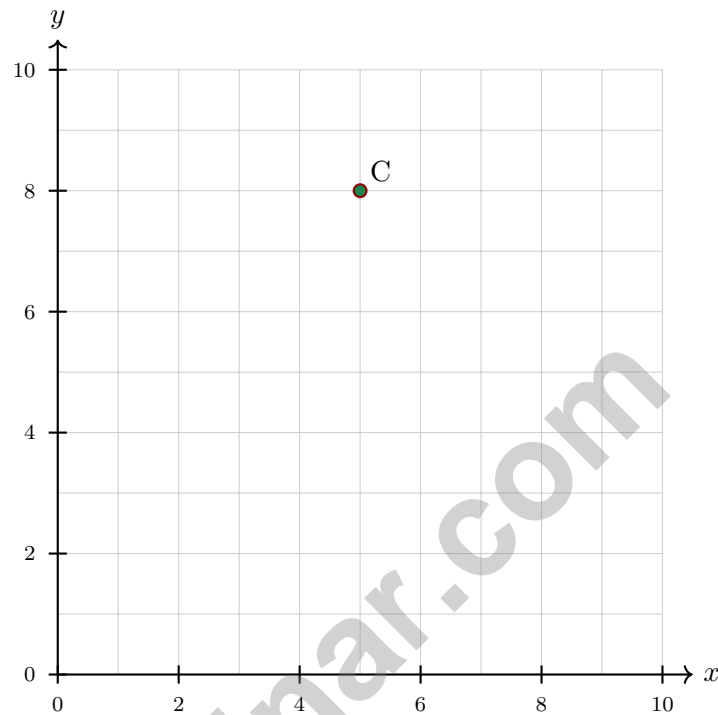
- | | |
|---|---|
| <p><input type="checkbox"/> A. Four right angles</p> <p><input type="checkbox"/> B. Two pairs of parallel sides</p> | <p><input type="checkbox"/> C. All sides are congruent</p> <p><input type="checkbox"/> D. Opposite sides are parallel</p> |
|---|---|
- 2) A rectangular gift box has volume 360 in^3 . It is 9 in long and 8 in wide. What is its height?
- | | |
|---|---|
| <p><input type="checkbox"/> A. 3 in</p> <p><input type="checkbox"/> B. 4 in</p> | <p><input type="checkbox"/> C. 5 in</p> <p><input type="checkbox"/> D. 6 in</p> |
|---|---|
- 3) An athlete trains $\frac{1}{2}$ hour Monday, $\frac{2}{3}$ hour Tuesday. Is the total more than 1 hour?
- | | |
|---|---|
| <p><input type="checkbox"/> A. Less by $\frac{1}{3}$</p> <p><input type="checkbox"/> B. Less by $\frac{1}{6}$</p> | <p><input type="checkbox"/> C. Exactly 1 hour</p> <p><input type="checkbox"/> D. More by $\frac{1}{6}$</p> |
|---|---|
- 4) A bench is 2.8 meters long. If a child is 0.7 meters tall, how many times the child's height is the bench?
- | | |
|---|---|
| <p><input type="checkbox"/> A. 2 times</p> <p><input type="checkbox"/> B. 3 times</p> | <p><input type="checkbox"/> C. 4 times</p> <p><input type="checkbox"/> D. 5 times</p> |
|---|---|
- 5) Simplify: What is $\frac{3}{4} \times \frac{2}{3}$ in lowest terms?



- | | |
|--|---|
| <p><input type="checkbox"/> A. $\frac{6}{10}$</p> <p><input type="checkbox"/> B. $\frac{1}{2}$</p> | <p><input type="checkbox"/> C. $\frac{3}{7}$</p> <p><input type="checkbox"/> D. $\frac{2}{3}$</p> |
|--|---|



- 6) Point C is at (5, 8). A second point D is 4 units below point C on the same vertical line. What are the coordinates of point D?



- A. (5, 12) C. (5, 4)
 B. (1, 8) D. (9, 8)
- 7) A student evaluated $8 + 3 \times 2$ and got 22. Which mistake did the student make?

Original: $8 + 3 \times 2$

Student work: $(8 + 3) \times 2 = 22$

- A. Divided instead of multiplying C. Multiplied 8 and 3 first
 B. Subtracted instead of multiplying D. Added before multiplying



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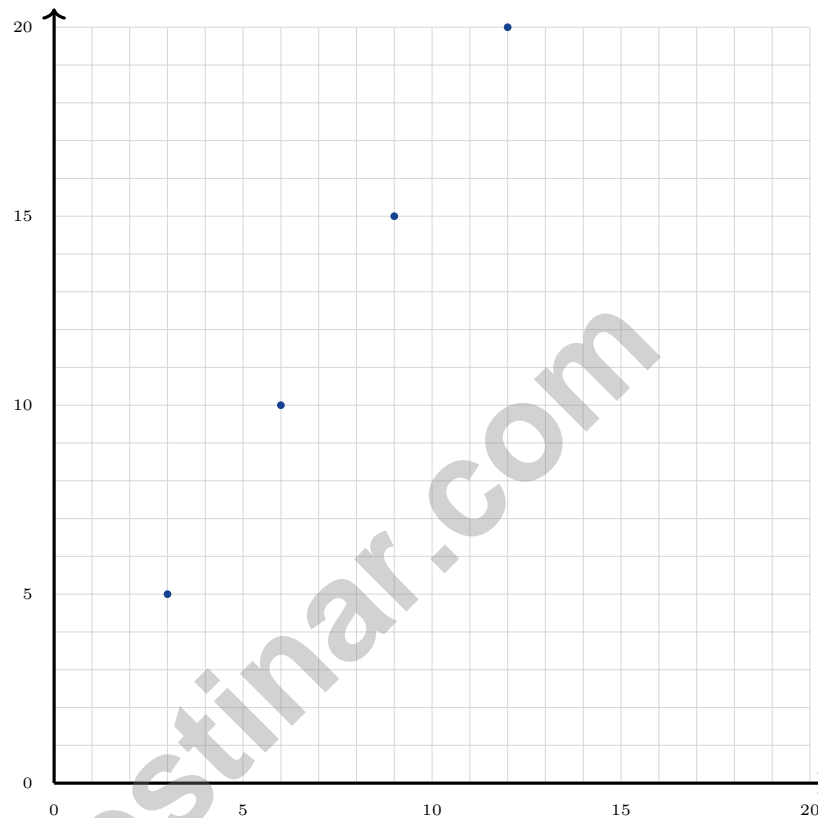
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- 1) Two machines produce widgets. Machine A (at rate 3 per hour) and Machine B (at rate 5 per hour) run for hours 1, 2, 3, 4. Plot (Machine A count, Machine B count) and identify which pair is for hour 3.



- A. (6, 10) C. (3, 5)
 B. (9, 15) D. (12, 20)

- 2) A class is divided into groups. If $\frac{1}{6}$ of 30 students go to Group A, how many is that?

- A. 5 students C. 15 students
 B. 6 students D. 20 students



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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 C is correct.** **(5.G.3)** Both shapes have 4 right angles, 2 pairs of parallel sides, and opposite sides parallel. But a rectangle does NOT require all sides to be congruent; only a square does.
- Choice C is correct.** **(5.MD.5)** The base area is $9 \times 8 = 72$ square inches. Divide the volume by the base area: $360 \div 72 = 5$, so the height is 5 in.
- Choice D is correct.** **(5.NF.2)** $\frac{1}{2} + \frac{2}{3}$: common denominator 6. $\frac{1}{2} = \frac{3}{6}$ and $\frac{2}{3} = \frac{4}{6}$. Total: $\frac{7}{6} = 1\frac{1}{6}$ hours.
- Choice C is correct.** **(5.NBT.7)** $2.8 \div 0.7 = 4$. Dividing by 0.7 is equivalent to dividing by $\frac{7}{10}$: $2.8 \div 0.7 = 4$.
- Choice B is correct.** **(5.MD.5)** $\frac{3}{4} \times \frac{2}{3} = \frac{6}{12} = \frac{1}{2}$.
- Choice C is correct.** **(5.G.2)** Point C is at (5, 8). Moving 4 units down subtracts 4 from the y -coordinate: $8 - 4 = 4$. The x -coordinate stays 5. So point D is at (5, 4).
- Choice D is correct.** **(5.OA.1)** The student added before multiplying, as if the expression were $(8 + 3) \times 2$. In the original expression, multiplication comes first: $8 + (3 \times 2) = 8 + 6 = 14$.
- The correct answer is $2\frac{1}{4}$ ft.** **(5.MD.2)** Sum with LCD 8: $\frac{3}{8} + \frac{4}{8} + \frac{5}{8} + \frac{6}{8} = \frac{18}{8} = \frac{9}{4} = 2\frac{1}{4}$ ft. Accept equivalent forms.
- The correct answer is equilateral.** **(5.G.3)** The side lengths are 5 cm, 5 cm, and 5 cm, so all 3 sides are equal. The triangle is equilateral.
- Choice D is correct.** **(5.MD.5)** Use the rectangular-prism volume formula: $6 \times 7 \times 7 = 294$. So the volume is 294 cubic meters.
- Choice C is correct.** **(5.NBT.2)** Multiplying by 100 moves the decimal two places right: $0.7 \rightarrow 7 \rightarrow 70$.
- Choice C is correct.** **(5.OA.3)** Each fold doubles the number of sections. Counting fold by fold gives 2, 4, 8, 16, 32, so after 5 folds there are 32 sections.
- Choice A is correct.** **(5.NF.4)** 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 C is correct.** **(5.NBT.2)** $3.5 \times 10 = 35$ mm (move decimal 1 place right).
- Choice D is correct.** **(5.NBT.2)** The table shows $91.5 \div 10 = 9.15$. Move decimal 1 place left.
- Choice D is correct.** **(5.OA.2)** The difference of 10 and 4 must stay grouped as $(10 - 4)$. Then multiply 9 by that whole difference.
- Choice D is correct.** **(5.NF.6)** $\frac{1}{4} \times \frac{8}{9} = \frac{8}{36}$, which simplifies to $\frac{2}{9}$ gallon.
- Choice A is correct.** **(5.NBT.2)** Dividing by 100 moves the decimal point two places to the left. $250 \div 100 = 2.50 = 2.5$.
- Choices A, B are correct.** **(5.NF.4)** Multiply the numerator by 3: $\frac{2}{7} \times 3 = \frac{6}{7}$. Since $\frac{6}{7}$ is just less than one whole, both A and B are true.
- Choice B is correct.** **(5.NF.4)** Both expressions multiply 24 by a fraction. Since $\frac{4}{5} > \frac{2}{3}$, $\frac{4}{5} \times 24$ has the larger value.
- Choice A is correct.** **(5.NF.1)** Rewrite $\frac{3}{4}$ as $\frac{6}{8}$. Since $\frac{6}{8} + \frac{1}{8} = \frac{7}{8}$, the missing addend is $\frac{1}{8}$.
- Choice B is correct.** **(5.G.2)** In an ordered pair (x, y) , the x represents the horizontal distance (how far right) from the origin.
- Choice C is correct.** **(5.OA.1)** Parentheses come first: $4 + 5 = 9$. Then $36 \div 9 = 4$, and $4 + 6 = 10$.
- Choice B is correct.** **(5.NF.6)** Each whole contains 8 pieces of size $\frac{1}{8}$. With 2 wholes, there are $2 \times 8 = 16$ pieces.
- Choice C is correct.** **(5.NF.6)** A sixth-box kit means 6 kits per full box. $15 \div \frac{1}{6} = 15 \times 6 = 90$ kits.
- The correct answer is (6, 3).** **(5.G.2)** Start with (0, 0). Then match the next terms from each pattern: (2, 1), (4, 2), and (6, 3). Accept equivalent spacing or comma formatting.
- Choice B is correct.** **(5.OA.3)** Pattern B is made by multiplying by 3 each time: $2 \times 3 = 6$, $6 \times 3 = 18$, and $18 \times 3 = 54$.
- Choice B is correct.** **(5.G.2)** The x -coordinate (40) is units sold, and the y -coordinate (200) is revenue in dollars. So 40 units were sold for \$200.
- Choice C is correct.** **(5.MD.4)** The base has $4 \times 2 = 8$ cubes. Since $32 \div 8 = 4$, the box must be 4 units tall.
- Choice A is correct.** **(5.NBT.2)** Use the zeros to reason backward: 400 has two zeros, and the product has four trailing zeros. 900×400 gives 36 with four zeros, or 360,000.



A Message From Your Math Partner

Hey there, Problem Solver!

◇ Incredible work! You've journeyed through 4 complete practice tests, and that's no small accomplishment! Each question you tackled strengthened your mathematical thinking. When you began, some problems might have felt overwhelming, but now you've developed the skills to break them down systematically. You've transformed into a confident mathematician who understands that persistence beats perfection every single time! ◇

★ **Here's something mathematicians understand:** mistakes are simply opportunities to learn something new. The greatest problem-solvers in history made countless errors before their breakthroughs. Through these 4 tests, you've practiced that same growth mindset. You've discovered that every challenging problem teaches you something valuable, and that knowledge stays with you forever! ★

Your Mathematical Growth Journey

- **Problem-Solving Skills:** EXCEPTIONALLY DEVELOPED! You can analyze complex situations with confidence!
- **Strategic Thinking:** SIGNIFICANTLY STRENGTHENED! You recognize patterns and apply effective strategies!
- **Persistence Level:** REMARKABLY HIGH! You've proven you can work through any challenge!
- **Test Readiness:** COMPLETELY PREPARED! You have all the tools you need to succeed!

Remember this: test day is your opportunity to demonstrate everything you've learned! You've completed 4 comprehensive practice tests; that's substantial preparation! You've analyzed problems, applied strategies, and developed mathematical confidence. Now it's time to showcase your abilities! Take a calming breath, trust your preparation, and remember that every skill you've built is ready to support you. You've got this!

If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

Reza Nazari & Jay Daie

Math Teacher and Your Cheer Squad

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

Full-length tests that reflect real test format and rigor.



COVERS ALL GRADE 5 TOPICS

Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more.



MIXED REVIEW & WORD PROBLEMS

Build problem-solving skills with mixed review questions and real-world word problems.



DETAILED ANSWER KEY

Step-by-step explanations for every question to help students learn and improve.



BUILD CONFIDENCE & IMPROVE SCORES

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



PRACTICE SMART. LEARN MORE. ACHIEVE YOUR BEST.



Strengthen
Math Skills



Improve
Accuracy
& Speed



Master
Essential
Concepts



Boost
Confidence
on Test Day



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