

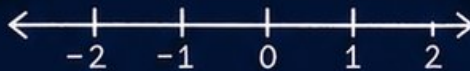
6

Utah
RISE

GRADE 5 MATH

PRACTICE TESTS

Complete Standards-Based Practice
— for Grade 5 Math Success —



**6 FULL-LENGTH
PRACTICE TESTS**

Realistic style questions



**STANDARDS-BASED
PRACTICE**

Covers all Grade 5
Math standards



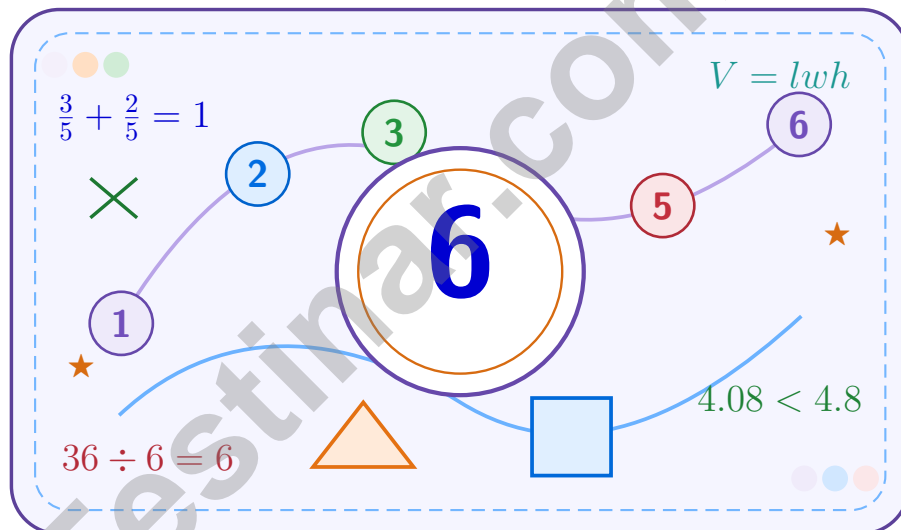
**BUILD CONFIDENCE.
IMPROVE SCORES.**

Target weak areas and
achieve success

★ STRONG PRACTICE. BRIGHT FUTURE. ★

6 Utah RISE Grade 5 Math Practice Tests

A six-step confidence climb with clear review, smart strategy, and practice that gets stronger every round



Six full tests, a focused skill booster, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

Jay Daie and Reza Nazari



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Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these six tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

Try

Give each problem your best thinking.

Check

Study mistakes and learn what happened.

Rise

Bring that lesson into the next round.

A strong habit for every page: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

How to Use This Book

A simple practice routine that turns six tests into steady growth

Step 1: Warm Up

Start with the quick review.
Spend a few minutes refreshing the ideas before you start a test.

Step 2: Take the Test

Take one full practice test.
Work in a quiet space and let accuracy matter more than speed.

Step 3: Study the Pattern

Check your work honestly.
Circle missed questions and notice patterns in the mistakes.

Step 4: Learn, Then Retry

Read the explanation and try again.
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.

A Six-Week Climb Map

Week	Mission Focus
Week 1	Take Test 1 and review any place-value or operation slips.
Week 2	Take Test 2 and focus on showing neat, easy-to-read work.
Week 3	Take Test 3 and give extra time to fractions or decimals if needed.
Week 4	Take Test 4 and slow down on word problems and units.
Week 5	Take Test 5 and compare your score and habits with earlier rounds.
Week 6	Take Test 6 and finish with calm, careful, confident work that uses everything you practiced before.



Scan me

Test Overview

What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the Utah RISE. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

Selected-Response Questions

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

Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

Grade 5 Skills You Will Practice Often

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, decimals, and mixed numbers
- perimeter, area, volume, and measurement conversions
- coordinate points, patterns, graphs, and tables
- geometry and multi-step word problems

What strong work looks like: the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



Table of Contents

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Grade 5 Mathematics

1

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



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

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1 gram (g) = 1,000 milligrams (mg)

TIME

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

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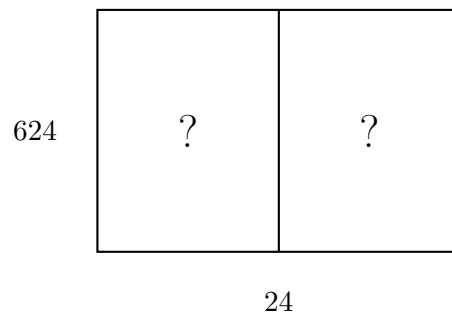
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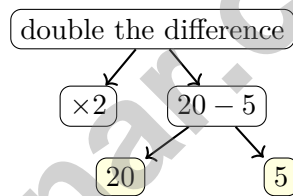


1) Divide: $624 \div 24$



- | | |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> A. 20 | <input type="checkbox"/> C. 26 |
| <input type="checkbox"/> B. 24 | <input type="checkbox"/> D. 28 |

2) Which expression is equivalent to “double the difference of 20 and 5”? The tree diagram shows the structure.



- | | |
|---|---|
| <input type="checkbox"/> A. $2 \times (20 - 5)$ | <input type="checkbox"/> C. $(20 - 5) + 2$ |
| <input type="checkbox"/> B. $20 - 5 \times 2$ | <input type="checkbox"/> D. $20 \times 2 - 5$ |

3) Without calculating, compare: $(240 + 87) \times 4$ $(240 + 87) \times 2$

- | | |
|-------------------------------|---|
| <input type="checkbox"/> A. > | <input type="checkbox"/> C. = |
| <input type="checkbox"/> B. < | <input type="checkbox"/> D. Cannot tell |



Grade 5 Mathematics Reference Materials

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1) Which expression represents “4 times the sum of 8 and 3, then subtract 2 times 6”?

A. $4 \times 8 + 3 - 2 \times 6$

C. $4 \times (8 + 3) - 2 \times 6$

B. $4 + (8 + 3) - 2 \times 6$

D. $4 \times (8 + 3 - 2) \times 6$

2) Rule: the output is 3 times the input. For input 4, what is the ordered pair?

A. (4, 8)

C. (4, 12)

B. (4, 16)

D. (4, 4)

3) An order of office supplies includes pens at \$2.25 per dozen and pencils at \$1.75 per dozen. If you order 4 dozen pens and 3 dozen pencils, what is the total cost?

Item	Price per Dozen	Quantity
Pens	\$2.25	4 dozen
Pencils	\$1.75	3 dozen
Total		?

A. \$14.25

C. \$15.00

B. \$13.50

D. \$16.00

4) Pattern: 40, 36, 32, 28, ... What is the rule and next term?

A. +4; 32

C. $\div 2$; 14

B. -4; 24

D. $\times 2$; 56

5) Which number is least: 0.6, 0.55, or 0.605?

Record your answer in the space provided.



Grade 5 Mathematics Reference Materials

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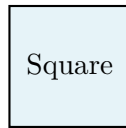
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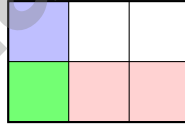
1)

Which statement about a square is always true?

- A. It has exactly 3 sides. C. It has no parallel sides.
 B. It has 4 equal sides and 4 right angles. D. It is not a quadrilateral.

2) Find: $480 \div 10$.

Record your answer in the space provided.

3) An area model can show $\frac{1}{2} \times \frac{1}{3}$. What is the product?

- A. $\frac{2}{3}$ C. $\frac{2}{5}$
 B. $\frac{1}{5}$ D. $\frac{1}{6}$



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.4) The base has $3 \times 3 = 9$ unit cubes. Since $18 \div 9 = 2$, the prism is 2 units tall.
- 2) **Choice A is correct.** (5.NF.4) $20 \times \frac{1}{5} = 4$ meters. Multiplying by $\frac{1}{5}$ scales the length down to one-fifth its original size.
- 3) **Choice B is correct.** (5.MD.1) Convert 2.5 L to mL: $2.5 \times 1000 = 2500$ mL. The container holds exactly 2,500 mL.
- 4) **Choice B is correct.** (5.NF.1) Convert to fourths: $2\frac{1}{2} = 2\frac{2}{4}$. Add: $1\frac{3}{4} + 2\frac{2}{4} = 3\frac{5}{4} = 4\frac{1}{4}$.
- 5) **Choice D is correct.** (5.NBT.2) $0.75 \times 100 = 75$ dollars (move decimal 2 places right).
- 6) **Choice D is correct.** (5.OA.1) Move outward through the grouping symbols. First $3 + 4 = 7$, then $2 \times 7 = 14$, then $14 - 6 = 8$, and finally $8 + 1 = 9$.
- 7) **Choice B is correct.** (5.NF.4) Simplify $\frac{6}{8} = \frac{3}{4}$. Then $\frac{3}{4} \times \frac{4}{9} = \frac{12}{36} = \frac{1}{3}$.
- 8) **Choice B is correct.** (5.NF.2) The denominator 5 is multiplied by 4 to make 20, so multiply the numerator by 4: $\frac{1}{5} = \frac{4}{20}$.
- 9) **Choice B is correct.** (5.NBT.2) Dividing by a power of 10 shifts the value to a smaller place. $7,000 \div 10 = 700$ screws per box. This confirms the answer.
- 10) **Choice D is correct.** (5.MD.2) Count all X marks: $1 + 2 + 4 + 2 + 1 = 10$ teams.
- 11) **The correct answer is 18.13.** (5.NBT.7) Line up decimal points and add place by place. Write $12.70 + 5.43 = 18.13$. This confirms the answer.
- 12) **Choice B is correct.** (5.NF.6) Use total amount divided by the size of one piece. The equation is $2 \div \frac{1}{5} = n$.
- 13) **Choice A is correct.** (5.NF.2) LCM of 2, 3, and 4 is 12. $\frac{1}{2} = \frac{6}{12}$, $\frac{1}{3} = \frac{4}{12}$, $\frac{1}{4} = \frac{3}{12}$.
- 14) **Choice D is correct.** (5.NBT.3) 0.91 has two decimal places, which means hundredths. The correct reading is "ninety-one hundredths". Maya counted the digits incorrectly.
- 15) **Choice B is correct.** (5.G.2) Point T is located 7 units to the right and 2 units up, giving coordinates (7, 2).
- 16) **Choice C is correct.** (5.MD.5) The base area is $16 \times 4 = 64$ square centimeters. Since $256 \div 64 = 4$, the height is 4 cm.
- 17) **Choice B is correct.** (5.NBT.5) Multiply: $121 \times 5 = (100 \times 5) + (20 \times 5) + (1 \times 5) = 500 + 100 + 5 = 605$.
- 18) **Choice C is correct.** (5.MD.4) Volume = $30 \times 20 \times 4 = 600 \times 4 = 2400$ m³.
- 19) **Choices A, B are correct.** (5.NF.6) The half-pound is shared equally among 3 sandwiches. Each share is $\frac{1}{2} \div 3 = \frac{1}{6}$ pound, so A and B are true.
- 20) **The correct answer is $\frac{1}{18}$.** (5.NF.7) $\frac{1}{6} \times \frac{1}{3} = \frac{1}{18}$.
- 21) **Choice C is correct.** (5.NF.7) $4 \div \frac{1}{5} = 4 \times 5 = 20$. We can make 20 packages.
- 22) **Choice A is correct.** (5.NBT.2) The product is correct: $25 \times 100 = 2500$. A more precise way to say the rule is that multiplying by 100 shifts the digits two places left in the place-value chart.
- 23) **Choice B is correct.** (5.NBT.2) She found the product correctly, but counted the zeros incorrectly. The number 230 ends with exactly one zero.
- 24) **Choice C is correct.** (5.NF.2) $\frac{1}{4} = \frac{3}{12}$. If $x - \frac{3}{12} = \frac{7}{12}$, then $x = \frac{10}{12} = \frac{5}{6}$.
- 25) **The correct answer is 12.** (5.NF.6) Find $\frac{2}{5}$ of 30 by multiplying. One fifth of 30 is 6, and two fifths is $2 \times 6 = 12$.
- 26) **Choice A is correct.** (5.G.2) Rule A: 1, 4, 7, 10. Rule B: 0, 4, 8, 12. Pairs (Rule A, Rule B) are listed in choice A.
- 27) **Choice C is correct.** (5.G.2) To find the farthest right point, look for the largest x-coordinate. Point J at (9, 8) has x-coordinate 9, which is the largest.
- 28) **Choice C is correct.** (5.MD.4) Volume = $10 \times 7 \times 5 = 350$ cubic inches.
- 29) **Choice A is correct.** (5.MD.4) $V = 14 \times 3 \times 6 = 42 \times 6 = 252$ in³.
- 30) **Choice A is correct.** (5.MD.5) Area = $\frac{2}{3} \times \frac{3}{5} = \frac{6}{15}$ square meters.
- 31) **Choice A is correct.** (5.OA.2) The notebooks cost 3×8 . The pen costs 4. To show the money left, subtract both costs from 50: $50 - 3 \times 8 - 4$.
- 32) **Choice D is correct.** (5.MD.5) One box has volume $5 \times 3 \times 2 = 30$ cubic feet. There are 4 boxes, so $30 \times 4 = 120$ cubic feet.



Mission Control Transmission

Greetings, Space Pioneer!

★ Mission accomplished! You've successfully completed six simulated space missions, navigating through challenging mathematical asteroid fields and solving complex orbital calculations like a trained astronaut! Each test was a mission into unknown territory, and you handled every challenge with the precision and focus of a space professional. You're ready for launch! ★

◇ **Here's what astronauts understand:** space missions require years of preparation before the actual launch. They simulate every possible scenario, practice emergency procedures, and develop automatic responses to challenges. You've done exactly that through these six tests! You've simulated test conditions, practiced problem-solving under pressure, and developed mathematical instincts that will activate automatically! ◇

Mission Readiness Assessment

- **Systems Check:** All mathematical operations functioning at optimal capacity!
- **Navigation Skills:** You can chart a course through any problem successfully!
- **Problem-Solving Protocol:** You respond to challenges systematically and efficiently!
- **Launch Authorization:** Mission Control approves you for test day deployment!

Remember this space mission protocol: astronauts stay calm in any situation because they've trained for it. When test day arrives, remember that you've already experienced six complete simulations. There's nothing that test can present that you haven't practiced. Stay calm, trust your training, and execute your mission with confidence!

Want to report your mission findings or share zero-gravity problem-solving insights? Transmit your message to reza@testinar.com. Mission Control is standing by!

Reza Nazari & Jay Daie

Your Math Coaches for Strong Reasoning

6 FULL-LENGTH TESTS. ENDLESS POTENTIAL.

PRACTICE TODAY. SUCCEED TOMORROW.

Give your child the tools they need to build strong math skills and test-taking confidence! This book includes **6 full-length practice tests** along with standards-based practice, mixed review, word problems, and a complete answer key.

★★★
PRACTICE
WITH PURPOSE.
ACHIEVE WITH
CONFIDENCE.

WHAT'S INSIDE:



6 FULL-LENGTH PRACTICE TESTS

Realistic tests designed to reflect the actual test format and help build confidence.



STANDARDS-BASED PRACTICE

Covers all essential Grade 5 math standards with clear explanations and examples.



MIXED REVIEW

Reinforces key concepts with a variety of question types and review exercises.



WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world scenarios.



COMPLETE ANSWER KEY

Step-by-step explanations for every question to support learning and growth.



IMPROVE. PRACTICE. ACHIEVE.

Consistent practice leads to stronger skills, higher scores, and greater success.



WHY PRACTICE MAKES A DIFFERENCE



BUILD CONFIDENCE

Feel prepared and ready for any challenge.



IMPROVE ACCURACY

Strengthen skills and reduce careless mistakes.



THINK STRATEGICALLY

Develop problem-solving skills and deepen understanding.



MANAGE TIME

Practice under timed conditions to build stamina.



STAY MOTIVATED

Track progress and celebrate every win.



ACHIEVE SUCCESS

Reach goals and unlock your full potential!



Visit testinar.com/math5

for more Grade 5 math resources and practice materials!



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Smart Practice. Stronger Results.