

# 10 COMPLETE Utah

## RISE

### 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



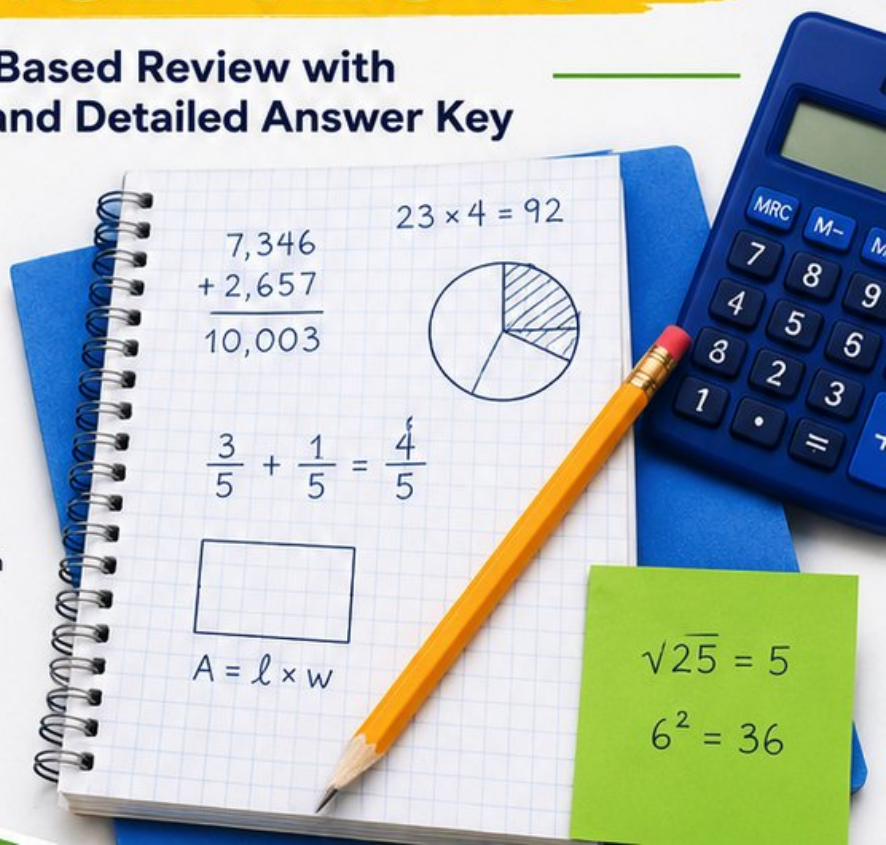
#### Mixed Practice

Variety of question types to strengthen skills



#### Detailed Answer Key

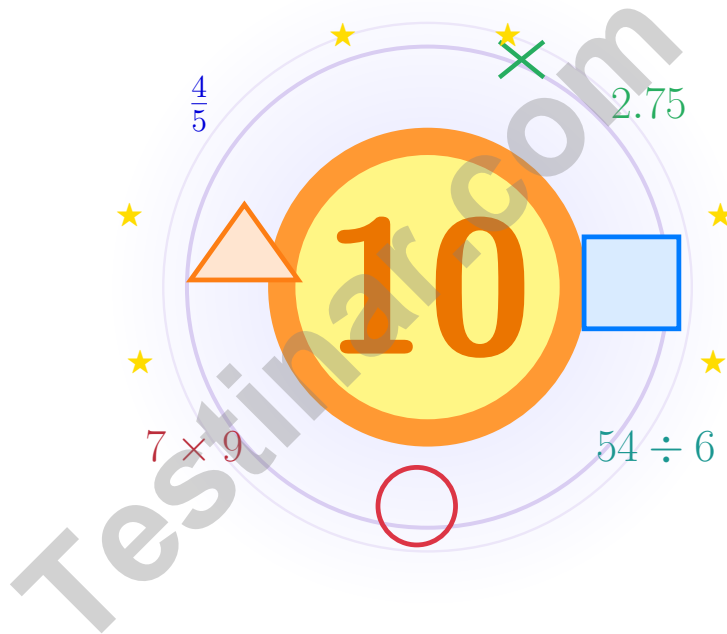
Step-by-step explanations for every question



PREPARE.  
PRACTICE.  
SUCCEED!

# 10 Utah RISE 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**



# Copyright ©

## Testinar Inc



Published by Testinar Inc

[Testinar.com](http://Testinar.com)

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



*Copyright ©*

# 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.



# Table of Contents

★ Practice Test 1	_____	20
★ Practice Test 2	_____	34
★ Practice Test 3	_____	48
★ Practice Test 4	_____	63
★ Practice Test 5	_____	79
★ Practice Test 6	_____	94
★ Practice Test 7	_____	109
★ Practice Test 8	_____	122
★ Practice Test 9	_____	137
★ Practice Test 10	_____	149
<b>Practice Test Answer Keys</b>	_____	<b>164</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>170</b>

## 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) Two students find  $3\frac{2}{5} - 1\frac{4}{5}$ . Which approach is correct?  
Student X: "Borrow 1 from 3 to get  $2\frac{7}{5} - 1\frac{4}{5} = 1\frac{3}{5}$ ."  
Student Y: "Convert:  $\frac{17}{5} - \frac{9}{5} = \frac{8}{5} = 1\frac{3}{5}$ ."
- A. Only X is correct                       C. Neither is correct  
 B. Only Y is correct                       D. Both are correct
- 2) Point P is at (3, 2) on a coordinate plane. If point P is moved 2 units right and 3 units up, what are the new coordinates of P'?
- A.  $P'(5, 5)$                                    C.  $P'(5, 2)$   
 B.  $P'(1, 5)$                                    D.  $P'(3, 5)$
- 3) A composite bookcase base is made from two non-overlapping rectangular prisms. Prism A is 4 centimeters long, 2 centimeters wide, and 5 centimeters tall. Prism B is 3 centimeters long, 3 centimeters wide, and 3 centimeters tall. What is the total volume?
- A. 67 cubic centimeters                       C. 27 cubic centimeters  
 B. 40 cubic centimeters                       D. 75 cubic centimeters
- 4) Two prisms have the same base area,  $25 \text{ m}^2$ . One prism has height 4 m, and the other has height 3 m. What is the difference in their volumes?
- A.  $100 \text{ m}^3$                                        C.  $50 \text{ m}^3$   
 B.  $75 \text{ m}^3$                                        D.  $25 \text{ m}^3$
- 5) Look at the table. How many ounces are in 3 pounds?

Pounds	Ounces
1	16
2	32
3	?

- A. 36 ounces                                   C. 48 ounces  
 B. 40 ounces                                   D. 50 ounces



6) What is  $10^2$ ?

A. 10

B. 20

C. 100

D. 1000

7) Solve:  $\_\_\_ \times 10^2 = 4500$

A. 45000

B. 450

C. 4500

D. 45

8) A rectangular concrete block has volume  $336 \text{ in}^3$ , length 12 in, and height 7 in. What is the width?

A. 4 in

B. 3 in

C. 5 in

D. 2 in

9) A garden plot that is  $\frac{1}{2}$  hectare is divided equally into 3 sections for different vegetables. How large is each section?



$\frac{1}{2}$  hectare split into 3

A.  $\frac{1}{6}$  hectare

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

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

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

10) A baker uses 0.25 kg of sugar in each batch of cookies. How much sugar for 4 batches?

A. 0.4 kg

B. 0.8 kg

C. 1.0 kg

D. 1.2 kg



## 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





39) Complete the pattern table:

Expression	Value
$7,000 \div 10$	700
$7,000 \div 100$	70
$7,000 \div 1,000$	?
$7,000 \div 10,000$	?

What are the missing values?

- A. 7 and 0.7
- B. 0.7 and 0.07
- C. 7 and 70
- D. 7,000 and 700
- 40) For a rectangular prism, the volume is 120 cubic units. The width is 5 units and the height is 4 units. What is the length?
- A. 2,400 units
- B. 20 units
- C. 111 units
- D. 6 units

## End of Practice Test

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



Scan me

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.**

Testinar.com



Scan me

## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice D is correct.** **(5.NF.1)** Both methods give  $1\frac{3}{5}$ . Borrowing and improper fractions are both valid strategies.
- Choice A is correct.** **(5.G.2)** Start with  $P(3,2)$ . Moving 2 units right adds 2 to the x-coordinate, and moving 3 units up adds 3 to the y-coordinate, giving  $P'(5,5)$ .
- Choice A is correct.** **(5.MD.3)** Find each part first: Prism A is  $4 \times 2 \times 5 = 40$  cubic centimeters, and Prism B is  $3 \times 3 \times 3 = 27$  cubic centimeters. Because the parts do not overlap, add them:  $40 + 27 = 67$  cubic centimeters.
- Choice D is correct.** **(5.MD.4)** First:  $V = 25 \times 4 = 100 \text{ m}^3$ . Second:  $V = 25 \times 3 = 75 \text{ m}^3$ . Difference:  $100 - 75 = 25 \text{ m}^3$ .
- Choice C is correct.** **(5.MD.1)** Since 16 ounces = 1 pound, multiply 3 by 16:  $3 \times 16 = 48$  ounces. The pattern shows each pound adds 16 ounces.
- Choice C is correct.** **(5.NBT.2)** A power of 10 tells how many factors of 10 to use.  $10^2$  means  $10 \times 10 = 100$ . This confirms the answer.
- Choice D is correct.** **(5.NBT.2)**  $10^2 = 100$ . So  $? \times 100 = 4500 \Rightarrow ? = 45$ .
- Choice A is correct.** **(5.MD.5)** The known length and height make groups of  $12 \times 7 = 84$  cubic inches. Since  $336 \div 84 = 4$ , the width is 4 in.
- Choice A is correct.** **(5.NF.7)**  $\frac{1}{2} \div 3 = \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$  hectare.
- Choice C is correct.** **(5.NBT.7)**  $0.25 \times 4 = 1.0$  kg. Multiply:  $25 \times 4 = 100$ , then place decimal two places from right.
- Choice D is correct.** **(5.NF.6)** Use total amount divided by the size of one piece. The equation is  $9 \div \frac{1}{3} = n$ .
- Choice B is correct.** **(5.MD.4)** Base area:  $6 \times 5 = 30$  square units. Total volume:  $30 \times 8 = 240$  cubic units.
- The correct answer is 5.** **(5.OA.2)** The expression  $12 + 8$  is one amount. Multiplying it by 5 makes 5 copies of that amount, so the answer is 5.
- The correct answer is 5.99.** **(5.NBT.4)** Thousandths digit is 5, which rounds the hundredths up from 8 to 9: 5.99.
- Choice A is correct.** **(5.OA.3)** Each value in Theta is 3 more than Eta:  $4+3=7$ ,  $8+3=11$ ,  $12+3=15$ ,  $16+3=19$ .
- Choice D is correct.** **(5.NF.4)**  $8 \times \frac{3}{8} = 3$  slices. The scaling factor  $\frac{3}{8}$  is less than 1, so the result is smaller than 8.
- Choice D is correct.** **(5.NBT.2)** A: 400 (whole number); B: 70 (whole number); C: 80 (whole number); D: 3.2 (non-whole-number decimal).
- Choice A is correct.** **(5.G.2)**  $x$ : 1, 2, 3, 4.  $y$ : 4, 8, 12, 16. The third point should be (3, 12), not (3, 11).
- Choice B is correct.** **(5.NBT.7)** Write 4.2 as 4.20 before adding. Then  $4.20 + 1.63 = 5.83$  (hundredths:  $0 + 3 = 3$ ; tenths:  $2 + 6 = 8$ ; ones:  $4 + 1 = 5$ ). The answer 5.65 suggests the decimal places were not lined up carefully.
- Choice C is correct.** **(5.G.2)** Both points have the same y-coordinate (6), which means they lie on a horizontal line at height 6.
- Choice B is correct.** **(5.NBT.7)** Both decimals have 4 tenths. Compare the hundredths: 6 hundredths is greater than 2 hundredths, so  $0.46 > 0.42$ .
- Choices A, B are correct.** **(5.OA.2)** A and B both start with twice 9 and then take away 7. C puts the 7 first, and D subtracts before doubling, so those do not match the words.
- Choice A is correct.** **(5.NF.4)** One fourth of 4 units is  $4 \times \frac{1}{4} = 1$  unit.
- Choice D is correct.** **(5.NF.4)**  $\frac{5}{4} > 1 > \frac{3}{4}$ , so  $20 \times \frac{5}{4}$  is the greatest.
- Choice B is correct.** **(5.NF.2)**  $4\frac{1}{10} \approx 4$  and  $1\frac{7}{8} \approx 2$ . So  $4\frac{1}{10} - 1\frac{7}{8} \approx 4 - 2 = 2$ .
- Choice D is correct.** **(5.G.3)** A quadrilateral with 4 right angles is a rectangle. Since the sides are not all equal, the most specific classification is rectangle rather than square.
- Choice C is correct.** **(5.OA.1)** Start with the parentheses:  $2 + 3 = 5$ . The expression becomes  $5 \times 5$ , which equals 25.
- The correct answer is  $\frac{3}{8}$ .** **(5.NF.2)**  $\frac{1}{4} = \frac{2}{8}$ . Difference:  $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$ .
- Choice A is correct.** **(5.NF.2)** Multiples of 5: 5, 10, 15, 20, ... Multiples of 4: 4, 8, 12, 16, 20, ... The least common denominator is 20.
- The correct answer is 0.07.** **(5.NBT.1)** The digit 7 is in the hundredths place, so it represents  $7 \times 0.01 = 0.07$ .



### From Your Math Family

#### Dear Member of the Math Family,

◇ Welcome to a special note from your math family. You finished 10 full practice tests, and that hard work matters more than any single score. We see you. We're proud of you. ◇

★ **What our math family knows:** math is a journey, not a one-time event. You've taken many steps already. The test is just one stop on a much longer path. Every skill you've built is yours forever. ★

#### What Your Math Family Sees

- **Effort:** STRONG! You showed up again and again.
- **Growth:** REAL! You can solve problems today you couldn't before.
- **Courage:** BRIGHT! You faced hard problems with brave thinking.
- **Future:** BIG! Your math journey is just beginning.

**Family tip:** on test day, picture us standing behind you, smiling and rooting for you. You're not alone. Your math family is with you. Now go show what you've learned.

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

**Reza Nazari & Jay Daie**

Your Math Family (Always With You)

# 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!



Visit [testinar.com/math5](https://testinar.com/math5)

for more Grade 5 math resources and practice materials!



Aligned to Standards



Created by Educators



Trusted by  
Parents & Teachers