

5

FULL-LENGTH

Utah RISE

GRADE 5 MATH

★ PRACTICE TESTS ★



**5 FULL-LENGTH
PRACTICE TESTS**



**COMPLETE
STANDARDS
REVIEW**



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

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



$$12 \times 3 = 36$$



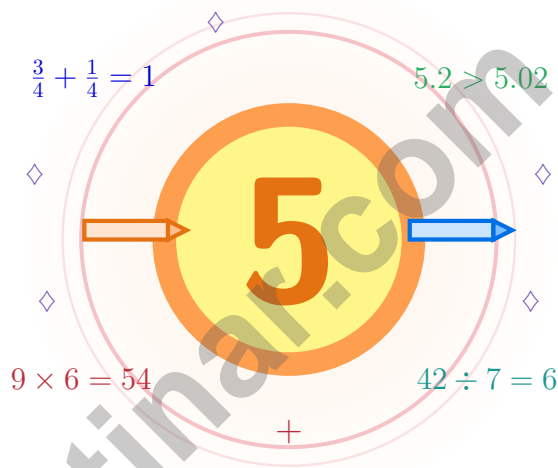
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 Utah RISE Grade 5 Math Practice Tests

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



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

Jay Daie and Reza Nazari



Copyright ©

Testinar Inc



Published by Testinar Inc

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 ©

Strap In, Utah – Five-Test Trail

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

Utah Mathematicians, Read This First

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 like a beehive – one careful step alone is small, but together they build something amazing.

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.

Watch

Watch what the question really wants from you.

Try

Try a strategy that matches the size of the numbers.

Polish

Polish your steps, units, and final answer.

A strong quest habit for Utah: 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.

Testinar.com



Scan me



From Cover to Final Test

A simple routine that turns five tests into real growth

Step 1: Plan

Plan a quiet hour for one full test.
Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Practice

Take the test with calm focus.
Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Inspect

Inspect every answer like a careful builder.
Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Adjust

Adjust what needs adjusting for the next test.
Read the explanation, repair the work, and carry that lesson into the next test.

A Five-Week Utah Quest Map

Week	Mission Focus
Week 1	Take Test 1 like the first careful step in a beehive.
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 focus.



Table of Contents

★ Practice Test 1	_____	19
★ Practice Test 2	_____	33
★ Practice Test 3	_____	49
★ Practice Test 4	_____	64
★ Practice Test 5	_____	78
Practice Test Answer Keys	_____	93
Practice Test Answers and Explanations	_____	97

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

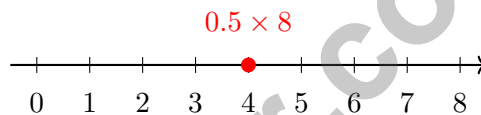


7) A gym class timed sprints. Which runner has the shortest time?

Runner	Time (s)
Alex	6.402
Blake	6.42
Chris	6.24
Dana	6.204

- A. Alex C. Chris
 B. Blake D. Dana

8) A number line shows where a product lands. What point represents 0.5×8 ?



- A. 2 C. 4
 B. 3 D. 5
- 9) A rectangular prism has dimensions 13 m, 2 m, and 4 m. What is its volume?
- A. 104 m^3 C. 52 m^3
 B. 19 m^3 D. 26 m^3



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

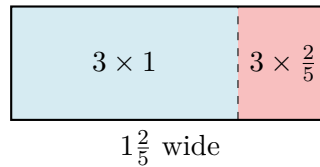
1 minute (min) = 60 seconds (sec) 1 week = 7 days

1 hour (hr) = 60 minutes (min) 1 year = 12 months

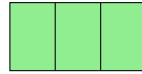
1 day = 24 hours (hr) 1 year = 52 weeks



- 1) Which multiplication matches the area model showing $3 \times 1\frac{2}{5}$?



- A. $3 + 1\frac{2}{5}$
 C. $\frac{3}{5} \times 1$
 B. $3 + \frac{2}{5}$
 D. $3 \times 1 + 3 \times \frac{2}{5}$
- 2) The model shows $\frac{1}{5}$ divided into 3 equal parts. What is the value of each part?



A bar marked $\frac{1}{5}$ split into 3 equal parts

- A. $\frac{1}{15}$
 C. $\frac{3}{5}$
 B. $\frac{1}{8}$
 D. $\frac{1}{2}$
- 3) A composite solid is made from two non-overlapping rectangular prisms. One prism is 8 cm by 5 cm by 3 cm. The other prism is 4 cm by 5 cm by 3 cm. Find the total volume and explain your work.

Record your answer in the space provided.



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

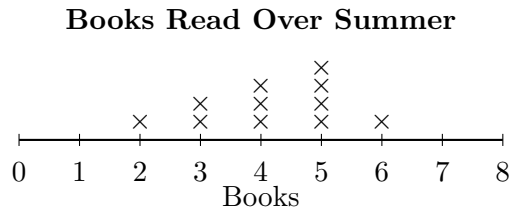
1 hour (hr) = 60 minutes (min) 1 year = 12 months

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



Scan me

1) The line plot shows the number of books read during summer break:



How many students read at least 4 books?

- | | |
|-------------------------------|-------------------------------|
| <input type="checkbox"/> A. 5 | <input type="checkbox"/> C. 7 |
| <input type="checkbox"/> B. 6 | <input type="checkbox"/> D. 8 |

2) Which measurement is smallest?

- | | |
|--------------------------------------|------------------------------------|
| <input type="checkbox"/> A. 5,000 mm | <input type="checkbox"/> C. 0.5 km |
| <input type="checkbox"/> B. 50 m | <input type="checkbox"/> D. 600 cm |

3) Estimate $\frac{11}{12} - \frac{1}{8}$ using 0, $\frac{1}{2}$, and 1 benchmarks.

Record your answer in the space provided.

4) Which factor makes $15 \times \text{factor} = 15$?

- | | | | |
|---------------|---|---------------|----------------|
| $\frac{7}{8}$ | 1 | $\frac{9}{7}$ | $1\frac{1}{2}$ |
|---------------|---|---------------|----------------|

Compare each factor to 1

- | | |
|---|--|
| <input type="checkbox"/> A. $\frac{7}{8}$ | <input type="checkbox"/> C. $\frac{9}{7}$ |
| <input type="checkbox"/> B. 1 | <input type="checkbox"/> D. $1\frac{1}{2}$ |



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

2) A bag has 1 pound of flour. Each small recipe uses $\frac{1}{2}$ pound. How many small recipes can be made?

 A. 1 recipe B. 2 recipes C. 4 recipes D. 6 recipes

3) What is $1.9 \div 10$?

 A. 0.19 B. 0.019 C. 190 D. 19

4) Convert: 2,500 g = ? kg.

Record your answer in the space provided.

5) Pattern: 64, 32, 16, 8, ... What's next?

 A. 2 B. 0 C. 6 D. 4

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 B is correct.** **(5.NBT.2)** The nonzero parts make $5 \times 2 = 10$, which adds one zero of its own. Together with the two factor zeros, the product is 1,000 with 3 zeros.
- 2) **Choice C is correct.** **(5.G.2)** Points on an axis have a 0 coordinate. A point inside the first quadrant has both coordinates greater than 0. Only (5, 7) has a positive x-coordinate and a positive y-coordinate.
- 3) **Choice C is correct.** **(5.NBT.2)** $3 \times 10^3 = 3 \times 1000 = 3000$, so $n = 3$.
- 4) **Choice B is correct.** **(5.NBT.2)** Calculate: $0.3 \times 10 = 3$; $0.3 \times 100 = 30$; $0.03 \times 10 = 0.3$; $0.03 \times 100 = 3$. In ascending order: 0.3, 3, 3, 30.
- 5) **Choice C is correct.** **(5.MD.5)** Choose the operation from the story, then keep the unit with the answer. Multiply: $2.3 \times 8 = 18.4$ centimeters. This confirms the answer.
- 6) **The correct answer is 5.** **(5.MD.5)** The base area is $8 \times 5 = 40$ square meters. Since $200 \div 40 = 5$, the height is 5 m.
- 7) **Choice D is correct.** **(5.NBT.7)** Shortest time = fastest. Compare: $6.204 < 6.24 < 6.402 < 6.42$. Dana's time of 6.204 s is shortest.
- 8) **Choice C is correct.** **(5.NBT.7)** $0.5 \times 8 = 4$, so the point belongs exactly at 4 on the number line.
- 9) **Choice A is correct.** **(5.MD.4)** $V = 13 \times 2 \times 4 = 104 \text{ m}^3$.
- 10) **Choice B is correct.** **(5.G.2)** Both points have the same x-coordinate (5), so they are on a vertical line. The distance is: $9 - 2 = 7$ units.
- 11) **Choice A is correct.** **(5.G.4)** Figures with 4 equal sides include the rhombuses that are not squares and the squares: $4 + 3 = 7$.
- 12) **Choice C is correct.** **(5.MD.2)** There are 3 pieces that are 1 inch long and 2 pieces that are $1\frac{1}{2}$ inches long. The total is $3 \times 1 + 2 \times 1\frac{1}{2} = 3 + 3 = 6$ inches.
- 13) **Choice B is correct.** **(5.NBT.1)** The digit in the hundredths place is 8. The number is 5.382.
- 14) **Choice C is correct.** **(5.NBT.3)** 0.56 has two decimal places, representing hundredths. The word form is "fifty-six hundredths".
- 15) **Choice A is correct.** **(5.NBT.2)** Dividing by 10 moves the decimal point one place to the left. $480 \div 10 = 48$.
- 16) **Choice A is correct.** **(5.OA.2)** The amount being divided is the sum $8 + 4$, and the divisor is the difference $10 - 6$. That is why both parts need grouping in the fraction.
- 17) **Choice C is correct.** **(5.NF.6)** Think of half-gallon groups. Each gallon fills 2 bottles, so $3 \div \frac{1}{2} = 3 \times 2 = 6$ bottles.
- 18) **Choice A is correct.** **(5.NBT.7)** $11.25 - 5.43 = 5.82$. Align decimals and subtract each place.
- 19) **Choice D is correct.** **(5.OA.1)** The parentheses give $15 + 5 = 20$. Then $20 \div 4 = 5$ and $3 \times 2 = 6$, so the final sum is $5 + 6 = 11$.
- 20) **The correct answer is $\frac{1}{12}$.** **(5.MD.5)** Splitting into 3 rows and 4 columns gives 12 equal parts; the overlapping region is 1 of those parts: $\frac{1}{12}$.
- 21) **Choices A, C are correct.** **(5.OA.1)** A uses parentheses to group $3 + 2$ before subtracting. C uses parentheses to group $4 + 2$ before multiplying by 3. B and D do not use grouping symbols, so they follow the usual order of operations.
- 22) **Choice B is correct.** **(5.OA.3)** Pattern T is twice Pattern U: $2 \times 2 = 4$, $4 \times 2 = 8$, $6 \times 2 = 12$, etc.
- 23) **Choice C is correct.** **(5.G.3)** A scalene triangle has all three sides of different lengths.
- 24) **Choice D is correct.** **(5.G.2)** Day 2: Ages 5–7 count is 6, Ages 8–10 count is 4. Ordered pair is (6, 4).
- 25) **Choice D is correct.** **(5.MD.5)** The base layer has $10 \times 3 = 30$ square units. Divide the volume by the base area: $90 \div 30 = 3$, so the height is 3 meters.
- 26) **The correct answer is $37\frac{1}{2}$.** **(5.NF.4)** One eighth of 100 is $12\frac{1}{2}$. Three eighths is $3 \times 12\frac{1}{2} = 37\frac{1}{2}$.
- 27) **Choice D is correct.** **(5.NF.4)** $\frac{11}{10} > 1$, so the product is greater than 30.
- 28) **Choice A is correct.** **(5.NF.6)** The original problem starts with 8 wholes. Reversing it puts $\frac{1}{4}$ first, which changes the meaning.
- 29) **Choice D is correct.** **(5.NBT.2)** $10^2 = 100$. So $? \times 100 = 7200 \Rightarrow ? = 72$.



Hello, Mathematical Artist!

★ Magnificent gallery! You've created five complete collections of mathematical artwork, carefully crafting solutions with precision and creativity like a master artist! Each problem was a blank canvas waiting for your artistic mathematical expression. You've filled your gallery with beautiful work that demonstrates both technical skill and creative insight! ★

◇ **Here's what accomplished artists know:** creating masterpieces requires vision, technique, and practice. Artists sketch ideas, experiment with methods, and refine their work through multiple iterations. You've practiced that artistic process through these five tests! Your mathematical artistry has matured, and your techniques have become refined and confident! ◇

Artist's Portfolio Review

1. **Creative Vision:** You see multiple approaches to mathematical challenges!
2. **Technical Skill:** Your execution of procedures is precise and clean!
3. **Artistic Expression:** Your solutions show both logic and elegance!
4. **Exhibition Ready:** Your portfolio is complete and impressive!

Remember this artistic wisdom: great artists develop their unique style through practice. Your mathematical style your way of approaching problems, organizing work, and verifying answers has become distinctly yours. On test day, express your mathematical artistry confidently. The world is ready to admire your work!

Want to display a particularly beautiful solution or discuss mathematical aesthetics? Send your artwork to reza@testinar.com. I celebrate mathematical creativity!

Reza Nazari & Jay Daie

Your Math Coaches for Neat Work and Clear Steps

5 FULL-LENGTH TESTS. STRONG SKILLS. BRIGHTER RESULTS.



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!

WHAT'S INSIDE:



5 FULL-LENGTH PRACTICE TESTS

Realistic tests that build familiarity, boost focus, and improve test readiness.



COMPLETE STANDARDS REVIEW

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



SKILL PRACTICE

Strengthen key math skills through a wide variety of practice questions.



WORD PROBLEMS

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



FULL ANSWER KEY

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



PRACTICE MORE. LEARN BETTER. SUCCEED ANYWHERE.



Build Confidence
with consistent
practice



Improve Accuracy
and problem-
solving skills



Time Management
strategies for
test success



**Achieve Your
Best Score!**



Visit testinar.com/math5
for more Grade 5 math resources
and practice materials!



Testinar
Smart Practice. Stronger Results.