

$\frac{2}{3}$

0,25



%

FULL-LENGTH

Utah

$\frac{2}{4}$

$7 \times 8 =$



7×8

$56 \div 7$

$(a+b)^2$

3

★★★★★
Aligned to State Standards

RISE

MATH

Grade

5

PRACTICE TESTS

Complete State Standards Review
with Answer Key and
Essential Math Skills Practice



3 Full-Length Practice Tests
Aligned to State Standards



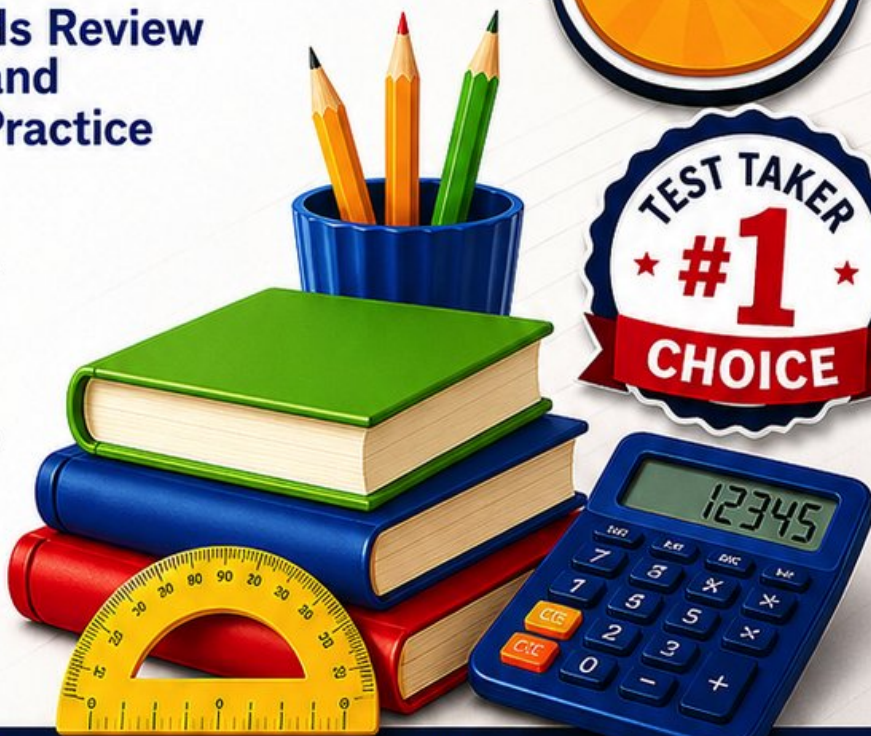
Covers All Grade 5 Math Topics
Numbers & Operations, Fractions,
Decimals, Geometry, Measurement,
Data & Problem Solving



Build Confidence
Strengthen Skills • Improve Accuracy
• Boost Test Readiness



Detailed Answer Key
Step-by-Step Explanations
for All Questions



WRITTEN FOR
GRADE 5 STUDENTS



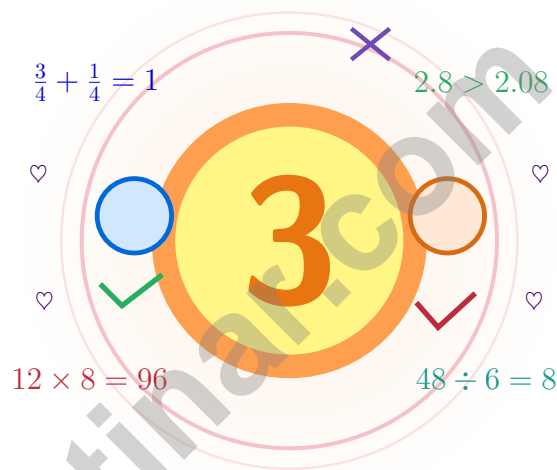
PERFECT FOR
TEST PREP & REVIEW



CLASSROOM, HOME,
OR SELF-STUDY USE

3 Utah RISE Grade 5 Math Practice Tests

Beehive math for steady, working thinkers



Three full tests, a friendly quick review, smart strategy pages, and student-tested support that help Grade 5 mathematicians from The Beehive State walk in ready to think.

Jay Daie and Reza Nazari



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Utah Thinkers, Sharpen Your Pencils

Beehive math for steady, working thinkers

Utah Mathematicians, Read This First

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

Some questions will feel easy from the very first read. Others will ask you to pause, sketch, estimate, or try again. That is not a problem. That is practice doing exactly what it should do. Every honest attempt grows your math brain a little stronger.

Notice

Look closely at what the problem says, shows, and asks.

Try

Pick a plan and step through it carefully.

Grow

Use every correction as a clue for what to master next.

A Utah promise to yourself: I will work my problems like a beehive: small careful steps, steady focus, big results.

From Cover to Cover

A simple game plan that turns practice into real progress

Step 1: Preview

Begin with the quick review.

Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Practice

Take one full practice test.

Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Reflect

Check your work honestly.

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

Step 4: Level Up

Repair and retry.

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

Three-Week Utah Game Plan

Week 1	Take Test 1 to learn your starting strengths – not just your starting score.
Week 2	Take Test 2 and give extra attention to the spots where reading carefully or showing work can lift your score.
Week 3	Take Test 3 and bring everything forward: calm focus, smart checking, stronger habits.



Scan me

What These Tests Are For

What these 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 getting answers right. Students are practicing how to read with care, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every single day.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first, ruling out weak choices, and checking for reasonableness can save both time and points.

Constructed-Response Questions

Students show their steps, explain a method, or back up an answer with clear math. Clean reasoning matters because it shows how the answer was actually 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
- line plots, tables, numerical patterns, and coordinate points
- geometry and multi-step real-world problems

What strong work looks like on the RISE: the math is correct, the steps are readable, the labels and units match the problem, and the final answer truly answers the question being asked.



Table of Contents

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★ Practice Test 3	_____	46
Practice Test Answer Keys	_____	61
Practice Test Answers and Explanations	_____	64

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) What is the value of $[(8 + 4) \div 2] \times 3$?

A. 6

C. 12

B. 9

D. 18

2) Find: $0.4 \div 10$.

Record your answer in the space provided.

3) A triangle has all angles less than 90 degrees and two sides of equal length. What two terms describe it?

A. Acute and isosceles

C. Right and isosceles

B. Acute and scalene

D. Obtuse and equilateral

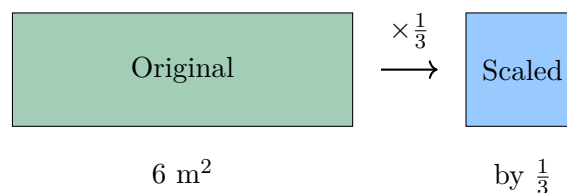
4) A bottle holds 0.9 liter of water. A box has 6 bottles. Is the total more or less than 6 liters, and what is the total?

A. Less than 6 liters; 5.4 liters

C. Less than 6 liters; 54 liters

B. More than 6 liters; 5.4 liters

D. Equal to 6 liters; 6 liters



5)

An area is 6 m^2 . If scaled by $\frac{1}{3}$, what is the new area?

A. 2 m^2

C. 6 m^2

B. 3 m^2

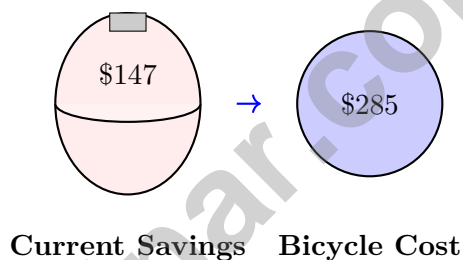
D. 9 m^2



6) Find: $2\frac{2}{3} \times 1\frac{1}{4}$.

Record your answer in the space provided.

- 7) Marcus is saving money to buy a bicycle that costs \$285. He already has \$147. His grandmother gives him \$25 each week for doing chores. If Marcus also earns \$12 from selling lemonade every weekend, how many weeks will it take him to have enough money to buy the bicycle?



- A. 3 weeks
- B. 4 weeks
- C. 5 weeks
- D. 6 weeks
- 8) Estimate: $\frac{5}{6} + \frac{7}{9}$.
- A. Less than 1
- B. Between 1 and $1\frac{1}{2}$
- C. Between $1\frac{1}{2}$ and 2
- D. More than 2
- 9) A science measurement is 19.455 cm. Which shows correct rounding to nearest tenth?
- A. 19.455 → 19.4
- B. 19.455 → 19.5
- C. 19.455 → 19.45
- D. 19.455 → 20



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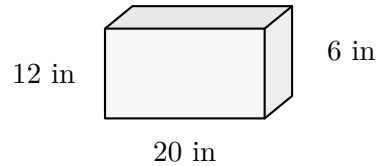
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- 1) A candy store displays chocolates in a rectangular box. The box measures 20 inches long, 12 inches wide, and 6 inches tall. How many cubic inches of space does the display box have?



- A. 960 cubic inches
- B. 1200 cubic inches
- C. 1440 cubic inches
- D. 1680 cubic inches
- 2) Expanded form using multiplication by powers of 10: $2 \times 1 + 3 \times \frac{1}{10} + 7 \times \frac{1}{100}$ equals which decimal?
- A. 2.37
- B. 2.73
- C. 237
- D. 0.237
- 3) Two patterns start at 0. Pattern P adds 3 each time; pattern Q adds 6 each time. List the first four ordered pairs (P, Q) , including the starting values.
- A. $(0, 0), (3, 6), (6, 12), (9, 18)$
- B. $(0, 0), (3, 3), (6, 6), (9, 9)$
- C. $(0, 0), (6, 3), (12, 6), (18, 9)$
- D. $(0, 0), (3, 6), (9, 12), (18, 24)$
- 4) Divide: $735 \div 15$
- A. 47
- B. 49
- C. 51
- D. 53



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



1) A model shows 4 wholes cut into halves. Which equation gives the number of half pieces?

A. $\frac{1}{2} \div 4 = n$

C. $4 + \frac{1}{2} = n$

B. $4 \times \frac{1}{2} = n$

D. $4 \div \frac{1}{2} = n$

2) A classroom cubby has volume 128 cubic inches. Its base is 8 inches by 4 inches. What is its height?

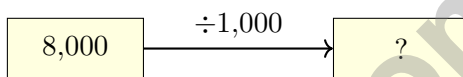
A. 3 inches

C. 5 inches

B. 4 inches

D. 32 inches

3) Show the division with a place-value arrow diagram:



What is $8,000 \div 1,000$?

A. 800

C. 8

B. 80

D. 0.8

4) A bar shows one third split into 4 equal parts. Which equation matches the model?

A. $4 \div \frac{1}{3} = ?$

C. $\frac{1}{3} \div 4 = ?$

B. $\frac{1}{3} \times 4 = ?$

D. $4 - \frac{1}{3} = ?$

5) A quadrilateral has four equal sides and four right angles. What is its most specific name?

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.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice D is correct.** (5.OA.1) First simplify the grouped part: $8 + 4 = 12$. Then move left to right through division and multiplication: $12 \div 2 = 6$, and $6 \times 3 = 18$.
- The correct answer is 0.04.** (5.NBT.2) Move the decimal point one place left: $0.4 \rightarrow 0.04$.
- Choice A is correct.** (5.G.3) All angles less than 90 degrees = acute; two equal sides = isosceles.
- Choice A is correct.** (5.NBT.7) Since each bottle has less than 1 liter, 6 bottles hold less than 6 liters. The total is $0.9 \times 6 = 5.4$ liters.
- Choice A is correct.** (5.NF.4) $6 \times \frac{1}{3} = 2 \text{ m}^2$. Scaling by $\frac{1}{3}$ makes the area one-third its original size.
- The correct answer is $3\frac{1}{3}$.** (5.NF.4) Convert the mixed numbers: $2\frac{2}{3} = \frac{8}{3}$ and $1\frac{1}{4} = \frac{5}{4}$. Multiply to get $\frac{40}{12}$, which simplifies to $\frac{10}{3} = 3\frac{1}{3}$.
- Choice B is correct.** (5.MD.5) Marcus needs $285 - 147 = 138$ additional dollars. Each week he earns $\$25 + \$12 = \$37$. Dividing: $138 \div 37 \approx 3.73$, so he needs 4 full weeks. Check: $147 + 4 \times 37 = 295 \geq 285$.
- Choice C is correct.** (5.NF.2) $\frac{5}{6} \approx 1$ and $\frac{7}{9} \approx 1$. The exact sum is greater than $1\frac{1}{2}$ and less than 2, so choice C is best.
- Choice B is correct.** (5.NBT.4) The tenths digit is 4. The hundredths digit is 5. Since $5 \geq 5$, round tenths up: $4 \rightarrow 5$, giving 19.5 cm.
- Choice C is correct.** (5.NBT.2) $10^5 = 100000$ and $10^6 = 1000000$, so this is true.
- Choice A is correct.** (5.NBT.7) $5.48 + 3.26$: hundredths $8 + 6 = 14$ (regroup); tenths $4 + 2 + 1 = 7$; ones $5 + 3 = 8$. Sum is 8.74. Maya is correct.
- Choice C is correct.** (5.NF.7) $3 \div \frac{1}{6} = 3 \times 6 = 18$. There are 18 slices in 3 pizzas.
- Choice A is correct.** (5.OA.2) The left expression multiplies both 18 and 32 by 9. The right expression multiplies only 18 by 9, then adds one 32, so the left expression is greater.
- Choice A is correct.** (5.NBT.7) All ones digits are equal. Compare tenths and hundredths: $1.22 > 1.21 > 1.20 > 1.02$, and 1.2 has the same value as 1.20.
- Choice A is correct.** (5.NF.2) $\frac{3}{4} = \frac{6}{8}$. Then $\frac{6}{8} + \frac{1}{8} = \frac{7}{8}$ cup of sugar.
- Choice A is correct.** (5.G.2) Starting from the origin, move 3 units right (x-coordinate is 3) and 1 unit up (y-coordinate is 1), landing at (3, 1).
- Choice A is correct.** (5.MD.5) The grid is $6 \times 3 = 18$ squares. The overlap covers $\frac{4}{6} \times \frac{2}{3} = \frac{8}{18}$, so 8 squares are double-shaded.
- Choices A, B are correct.** (5.NF.6) Multiply numerators and denominators: $\frac{3}{4} \cdot \frac{4}{5} = \frac{12}{20} = \frac{3}{5}$. Choice C adds instead of multiplying, and D is not true.
- Choice C is correct.** (5.MD.3) Find each part first: Prism A is $8 \times 2 \times 3 = 48$ cubic feet, and Prism B is $3 \times 5 \times 5 = 75$ cubic feet. Because the parts do not overlap, add them: $48 + 75 = 123$ cubic feet.
- Choice B is correct.** (5.NF.2) Multiples of 6: 6, 12, 18, ... Multiples of 4: 4, 8, 12, ... The LCD is 12.
- Choice A is correct.** (5.NF.2) LCD = 24. $\frac{7}{8} = \frac{21}{24}$; $\frac{1}{6} = \frac{4}{24}$; $\frac{21}{24} - \frac{4}{24} = \frac{17}{24}$.
- Choice A is correct.** (5.G.2) The second coordinate is double the first coordinate, then add 3. For $x = 4$, $2(4) + 3 = 11$, so the next point is (4, 11).
- Choice D is correct.** (5.NF.6) Use total amount divided by the size of one piece. The equation is $3 \div \frac{1}{6} = n$.
- The correct answer is $\frac{1}{4}$.** (5.OA.3) $1 = \frac{1}{4} \times 4$, $2 = \frac{1}{4} \times 8$, etc.
- Choice A is correct.** (5.OA.2) The sandwich cost is 4×6 , and the drink cost is 4×2 . Add those costs first, then subtract the total from 50 to show the change.
- Choice B is correct.** (5.NF.4) A gives $1\frac{1}{2}$, B gives $13\frac{1}{2}$, and C gives 18. The value $13\frac{1}{2}$ is closest to 15, so B is correct.
- The correct answer is 48.** (5.MD.4) The bottom layer has 12 cubes, and the prism is 4 layers tall. That gives $12 \times 4 = 48$ cubic units.
- The correct answer is 11.** (5.OA.1) The parentheses give $15 + 9 = 24$. Then $24 \div 4 = 6$, and the remaining steps are $6 - 2 = 4$ and $4 + 7 = 11$.



Authors' Notes

From Your Math Family

Dear Member of the Math Family,

◇ Welcome to a special note from your math family. You finished 3 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. I'd love to hear from you!

Reza Nazari & Jay Daie
Your Math Family (Always With You)

Build Skills. Boost Confidence. Excel on the Grade 5 Math Test.

Help your child succeed with confidence! This book includes **3 full-length Grade 5 Math practice tests** aligned to state standards. With a focus on essential skills, problem solving, and test readiness, it's the perfect resource for classroom, home, or on-the-go practice.



WHAT'S INSIDE:



3 Full-Length Grade 5 Math Practice Tests

Realistic test format to build familiarity and confidence.



Covers All Essential Math Topics

Fractions, decimals, geometry, measurement, data, number operations, and more.



Build Strong Math Skills

Strengthen understanding and problem-solving through varied question types.



Detailed Answer Key

Step-by-step explanations to help your child learn from mistakes and improve.



Track Progress & Improve

Use score trackers to identify strengths and focus on areas that need more practice.



The Smarter Way to Prepare!

Consistent practice builds stronger skills, sharper thinking, and test-day success.

- ✓ Reinforce classroom learning
- ✓ Improve accuracy and speed
- ✓ Reduce test anxiety
- ✓ Achieve your best score!



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and practice materials!