

9

Idaho

ISAT

GRADE 5 MATHEMATICS PRACTICE TESTS

Full-Length Standards-Aligned Practice
for Strong Math Performance

$$A = l \times w$$

$$x^2 + 3x - 4 = 0$$

$$y = 2x + 1$$



9
FULL-LENGTH
PRACTICE
TESTS

$$2,345 \times 6 = 14,070$$



$$\frac{3}{4} + \frac{1}{8} = \frac{7}{8}$$

$$7.2 \div 0.8 = 9$$



$$(12 + 8) \div 4 = 5$$



Build Confidence



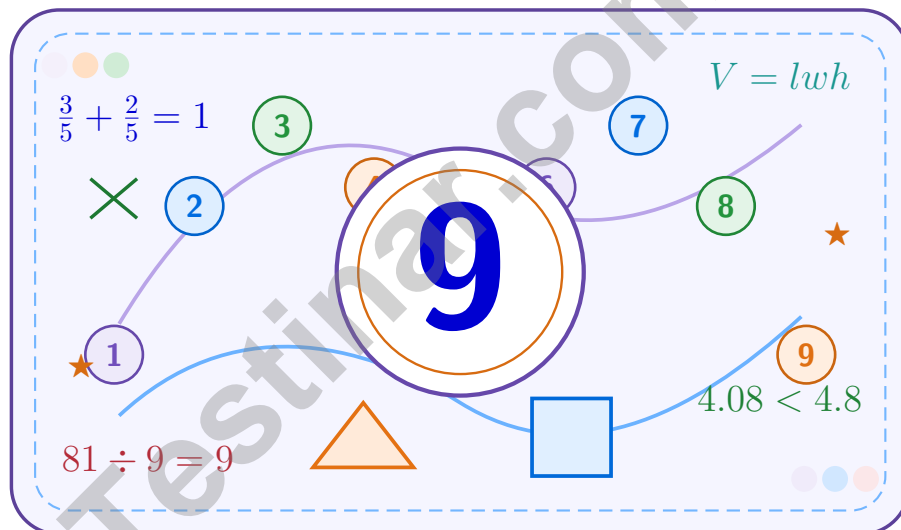
Improve Math Skills



Achieve Success

9 Idaho ISAT Grade 5 Math Practice Tests

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



Nine full tests, focused skill boosters, 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 nine 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 nine tests into steady growth

A Nine-Session Climb Map

Session	Mission Focus
1	Take Test 1; review place value and operation slips.
2	Take Test 2; keep work neat and easy to read.
3	Take Test 3; give extra time to fractions and decimals.
4	Take Test 4; slow down on word problems and units.
5	Take Test 5; compare scores and habits with earlier rounds.
6	Take Test 6; notice which habits are now automatic.
7	Take Test 7; explain open-ended answers clearly.
8	Take Test 8; review topics that still need attention.
9	Take Test 9; finish with calm, careful, confident work.

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.



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 Idaho ISAT. 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

★ Practice Test 1	_____	14
★ Practice Test 2	_____	31
★ Practice Test 3	_____	46
★ Practice Test 4	_____	61
★ Practice Test 5	_____	77
★ Practice Test 6	_____	93
★ Practice Test 7	_____	108
★ Practice Test 8	_____	124
★ Practice Test 9	_____	138
Practice Test Answer Keys	_____	155
Practice Test Answers and Explanations	_____	161

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

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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) Growing cross pattern:



Fig 1



Fig 2

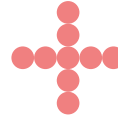


Fig 3

How many dots in Figure 4?

A. 11

C. 15

B. 13

D. 17

2) A teacher has 1 pound of modeling clay. Each table group needs $\frac{1}{2}$ pound. How many table groups can receive clay?

A. 2 groups

C. 4 groups

B. 3 groups

D. 6 groups

3) A package weighs 6.846 kg. Round to the nearest hundredth for shipping records.

A. 6.8 kg

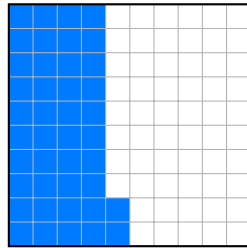
C. 6.85 kg

B. 6.84 kg

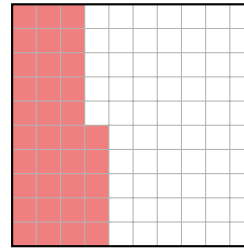
D. 7 kg



- 4) A hundredths grid shows: Grid A has 42 shaded; Grid B has 35 shaded. Find the sum as a decimal.



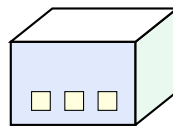
Grid A: 0.42



Grid B: 0.35

What is $0.42 + 0.35$?

- A. 0.67 C. 0.87
 B. 0.97 D. 0.77
- 5) What is the volume of a rectangular prism with length 8 cm, width 5 cm, and height 4 cm?
- A. 160 cm^3 C. 200 cm^3
 B. 120 cm^3 D. 180 cm^3
- 6) Which expression has the fewest zeros in its product?
- A. 3×10 C. 20×50
 B. 40×50 D. 25×20
- 7) A storage box is filled with 3 layers of unit cubes. Each layer has 4 unit cubes. What is the volume of the box?



3 layers, 4 cubes in each layer

- A. 7 cubic units C. 24 square units
 B. 12 cubic units D. 3 units



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1) Which expression does *not* simplify to a whole number?

A

$$[24 \div (3 + 1)]$$

B

$$(18 - 5) \div 6$$

C

$$[(12 + 4) \div 4]$$

A. $[24 \div (3 + 1)]$

B. $(18 - 5) \div 6$

C. $[(12 + 4) \div 4]$

 D. All simplify to whole numbers

Start: 42.6



Divide by 10



Result: ?

2)

What is the result?

A. 4.26

B. 426

C. 0.426

D. 42.6

3) Five wholes are divided into pieces of size $\frac{1}{3}$. Which equation finds how many one-third pieces there are?

A. $\frac{1}{3} \div 5 = n$

B. $5 \times \frac{1}{3} = n$

C. $5 + \frac{1}{3} = n$

D. $5 \div \frac{1}{3} = n$



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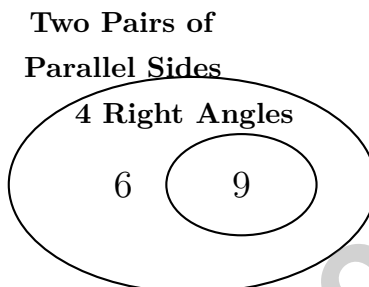
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1) Is the difference $11 - 6\frac{7}{9}$ estimated correctly as 4, and within how much of the true value?

- A. Yes, exact; no error C. Within 0.5 but not exact
 B. Within 0.3 D. Off by more than 0.5

2) A Venn diagram shows quadrilaterals with 4 right angles inside the group of quadrilaterals with two pairs of parallel sides:



Why is the smaller circle completely inside the larger circle?

- A. No quadrilateral can have four right angles. C. A square has only three sides.
 B. A rectangle is never a parallelogram. D. A quadrilateral with four right angles also has two pairs of parallel sides.
- 3) A right triangle has angles of 90 degrees, 45 degrees, and 45 degrees. Are any sides equal?
- A. All three sides are equal C. No sides are equal
 B. Two sides are equal D. Cannot be determined

4) Compare: 10×50 20×25

- A. > C. =
 B. < D. Cannot tell



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 Idaho scores.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** (5.OA.B.3) The dot counts are 1, 5, 9, and then 13. Each new figure adds 4 dots.
- 2) **Choice A is correct.** (5.NF.B.6) This is a count of half-pound groups in 1 pound: $1 \div \frac{1}{2} = 2$ groups.
- 3) **Choice C is correct.** (5.NF.B.6) Rounding 6.846 to the nearest hundredth: the thousandths digit is 6. Since $6 \geq 5$, round the hundredths digit up: 4 becomes 5, giving 6.85 kg.
- 4) **Choice D is correct.** (5.NBT.A.4) Combine: $42 + 35 = 77$ shaded squares. So $0.42 + 0.35 = 0.77$.
- 5) **Choice A is correct.** (5.MD.C.4) Volume = $l \times w \times h = 8 \times 5 \times 4 = 160 \text{ cm}^3$.
- 6) **Choice A is correct.** (5.MD.C.4) 3×10 makes 30, which has only 1 zero. Each other choice ends with more zeros.
- 7) **Choice B is correct.** (5.NBT.A.2) Volume describes how many unit cubes fit inside a solid. With 3 layers of 4 cubes, the volume is $3 \times 4 = 12$ cubic units.
- 8) **Choice C is correct.** (5.MD.A.1) 1 kg = 1,000 g. Multiply: $0.5 \times 1000 = 500$ g.
- 9) **Choice D is correct.** (5.MD.A.1) Each time we divide by a larger power of 10, the answer becomes smaller. Moving three decimal places left: $3,500 \div 1,000 = 3.5$.
- 10) **Choice B is correct.** (5.NF.B.7) The diagram shows $\frac{1}{3}$ split into 2 equal parts, which represents $\frac{1}{3} \div 2 = \frac{1}{6}$.
- 11) **Choice D is correct.** (5.MD.C.4) $V = 8 \times 5 \times 3 = 40 \times 3 = 120 \text{ cm}^3$.
- 12) **The correct answer is $3\frac{1}{4}$.** (5.MD.C.4) Rewrite $4\frac{1}{2} = 4\frac{2}{4}$. Subtract: $(4 - 1) + (\frac{2}{4} - \frac{1}{4}) = 3\frac{1}{4}$.
- 13) **Choice C is correct.** (5.NF.A.1) Time difference: $28 - 12 = 16$ minutes. Convert: $16 \times 60 = 960$ seconds.
- 14) **The correct answer is 3.** (5.MD.A.1) First simplify $\frac{2}{6}$ to $\frac{1}{3}$. Then $9 \times \frac{1}{3} = \frac{9}{3} = 3$.
- 15) **Choice B is correct.** (5.NF.B.4) Since 1 gallon = 4 quarts, divide 12 by 4: $12 \div 4 = 3$ gallons. This also matches 24 pints because 3 gallons equals 24 pints.
- 16) **Choice A is correct.** (5.MD.C.4) Use the rectangular-prism volume formula: $12 \times 7 \times 5 = 420$. So the volume is 420 cubic centimeters.
- 17) **Choice A is correct.** (5.MD.C.4) Work backward by dividing 3.8 by 10. Moving one place left gives 0.38.
- 18) **Choice D is correct.** (5.NBT.A.2) Compatible numbers close to 3,149 and 59 are 3,000 and 60. So $3,000 \div 60 = 50$ is a good estimate. Actual: $3,149 \div 59 = 53 \text{ R}22$.
- 19) **Choice C is correct.** (5.OA.A.1) Find the whole divisor before dividing. First $(4 + 2) = 6$, then $6 \times 2 = 12$, and finally $72 \div 12 = 6$.
- 20) **The correct answer is $3\frac{7}{8}$.** (5.OA.A.1) Wholes: $2 + 1 = 3$. Fractions: $\frac{6}{8} + \frac{1}{8} = \frac{7}{8}$. Total: $3\frac{7}{8}$.
- 21) **Choice C is correct.** (5.NF.A.1) $100 \times \frac{4}{5} = 80$ points. Multiplying by $\frac{4}{5}$ (less than 1) reduces the score.
- 22) **Choices A, B are correct.** (5.NF.B.5) A is true because 3 copies of $(6 + 4)$ can be written as 2 copies plus 1 more copy. B is true because 10 groups of 7 are greater than 10 groups of $7 - 1$. C adds an extra 9, and D leaves out one group of 5.
- 23) **Choice A is correct.** (5.G.A.1) Pattern P is 8 times Pattern O: $1 \times 8 = 8$, $2 \times 8 = 16$, $3 \times 8 = 24$, $4 \times 8 = 32$.
- 24) **Choice C is correct.** (5.MD.C.4) Front layer: 8 cubes. Depth of 3: $8 \times 3 = 24$ unit cubes total.
- 25) **Choice B is correct.** (5.MD.C.4) The base area is 32 square centimeters. Since $96 \div 32 = 3$, the block is 3 cm tall.
- 26) **Choice C is correct.** (5.MD.C.4) Both points have the same y -coordinate (4), so they are on a horizontal line. The distance is the difference of the x -coordinates: $8 - 2 = 6$ units.
- 27) **Choice D is correct.** (5.NF.B.6) Convert to improper fractions: $4\frac{1}{3} = \frac{13}{3}$ and $1\frac{1}{2} = \frac{3}{2}$. Then $\frac{13}{3} \times \frac{3}{2} = \frac{13}{2} = 6\frac{1}{2}$.
- 28) **Choice D is correct.** (5.NF.B.6) The thousandths place is the third position to the right of the decimal point. In 11.247, the digit 7 is in the thousandths place.
- 29) **Choice A is correct.** (5.G.A.2) The x -coordinate (2) represents time in hours. So the car traveled 80 miles in 2 hours.
- 30) **The correct answer is $<$.** (5.NBT.A.3) 1.408 has 4 tenths and 0 hundredths. 1.48 has 4 tenths and 8 hundredths. So $1.408 < 1.48$.
- 31) **Choice C is correct.** (5.NBT.A.3) Each whole contains 4 pieces of size $\frac{1}{4}$. With 2 wholes, there are $2 \times 4 = 8$ pieces.
- 32) **Choice A is correct.** (5.NF.B.6) $\frac{3}{4} \times \frac{4}{5} = \frac{12}{20} = \frac{3}{5}$ acre.



Notes From the Math Gardener

Dear Math Gardener,

◇ Look at how much you've grown! 9 practice tests is like 9 seasons of planting and harvesting. Each problem was a seed, each effort was water, and each "aha!" was sunshine. Your math garden is strong now—and it shows. ◇

★ **What gardeners know:** growth is steady, not sudden. You don't see roots growing, but they are. You don't always feel yourself getting smarter, but you are. The proof is in the questions you can solve today that felt impossible 9 tests ago. ★

Garden Inspection Report

- **Roots (foundation):** DEEP! Your basic skills are solid.
- **Stems (structure):** STURDY! Your problem-solving steps hold up.
- **Leaves (skills):** LUSH! You have many strategies to draw on.
- **Flowers (confidence):** BLOOMING! You believe in your skills.

Gardener's wisdom: keep watering your math garden long after the test. Every habit you built (read carefully, plan, check) will grow with you for years. The test is just one harvest. Your garden keeps growing.

If you want to share a proud moment or ask a question, please email me at jay@testinar.com. I'd love to hear from you!

Jay Daie

Your Math Gardener (Keep Growing!)

PRACTICE MORE. ACHIEVE MORE.

Give your child the edge they need to excel in **Grade 5 Math!** This book includes **9 full-length** practice tests designed to build confidence, sharpen skills, and improve test performance.

9

**FULL-LENGTH
PRACTICE
TESTS**

- ✓ Realistic.
- ✓ Rigorous.
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More practice today for a **stronger** tomorrow.



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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.



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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!



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