

$\frac{2}{3}$

0,25



%

FULL-LENGTH

Idaho

$\frac{2}{4}$

$7 \times 8 =$



7×8

$56 \div 7$

$(a+b)^2$

3

★★★★★
Aligned to State Standards

ISAT

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



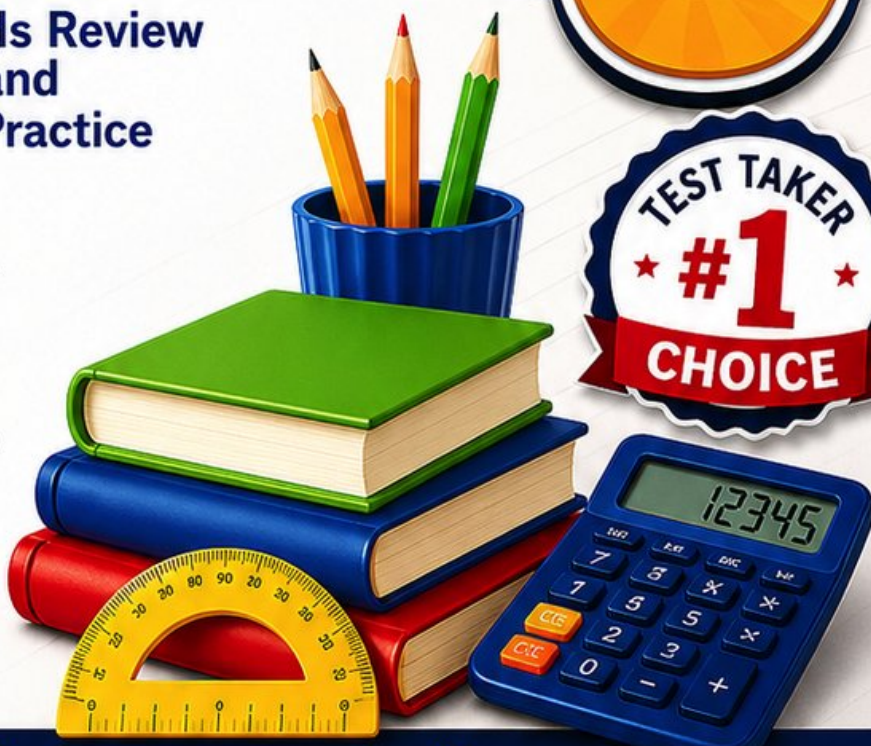
Covers All Grade 5 Math Topics
Numbers & Operations, Fractions,
Decimals, Geometry, Measurement,
Data & Problem Solving



Build Confidence
Strengthen Skills • Improve Accuracy
• Boost Test Readiness



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



WRITTEN FOR
GRADE 5 STUDENTS



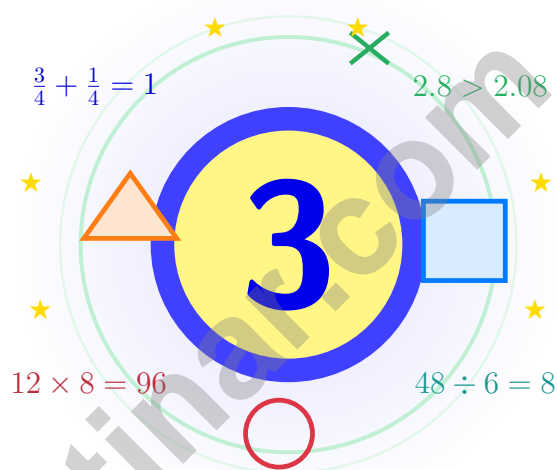
PERFECT FOR
TEST PREP & REVIEW



CLASSROOM, HOME,
OR SELF-STUDY USE

3 Idaho ISAT Grade 5 Math Practice Tests

Gem-state math for clear, careful thinkers



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

Jay Daie and Reza Nazari



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Step Up, Idaho – Math Camp Begins

Gem-state math for clear, careful thinkers

To Every Grade 5 Problem Solver in Idaho

Math is like a gem in raw rock – it shines once you take the time to chip carefully and look closely.

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.

Watch

Watch what the problem actually wants from you.

Choose

Choose the operation, model, or table that fits.

Polish

Check labels, units, and the final word of the question.

An Idaho promise to yourself: I will treat each problem like a gem – look at every face, polish every step, and let my best work shine.

How to Get the Most Out

A simple game plan that turns practice into real progress

Step 1: Open

Open the quick review and warm up your math brain.

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

Step 2: Test

Take a full practice test like the real day.

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

Step 3: Reflect

Notice what felt strong and what felt shaky.

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

Step 4: Sharpen

Practice the shaky skills, then try the next test.

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

Your 3-Week Practice Map

Week 1	Take Test 1 and write down one thing you noticed about your work.
Week 2	Take Test 2 and aim to fix one habit you noticed last week.
Week 3	Take Test 3 and celebrate the habits you carried through.



Scan me

Meet the Tests

What these practice tests help Grade 5 students build

These three practice tests prepare Grade 5 students in the Gem State for the Idaho ISAT with the careful eye of a rockhound. 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 ISAT: 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

★ Practice Test 1	_____	17
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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



6) Which pair has two expressions that both equal 5000?

A. 40×10 and 4×100

C. 50×100 and 500×10

B. 40×10 and 4×1000

D. 30×1000 and 3×10000

7) A juice blend has $\frac{3}{5}$ orange juice and $\frac{1}{4}$ apple juice. Fraction that is water?

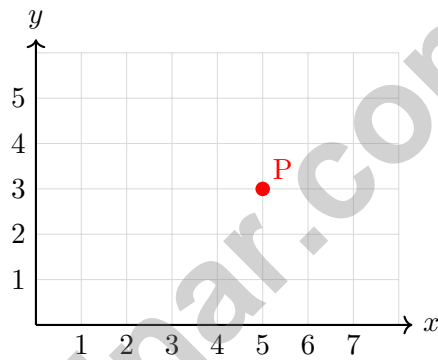
A. $\frac{3}{20}$

C. $\frac{4}{9}$

B. $\frac{7}{20}$

D. $\frac{1}{20}$

8) From the coordinate grid, which ordered pair is shown?



A. (3, 5)

C. (5, 5)

B. (5, 3)

D. (3, 3)

9) How many units right must you go from the origin to reach the point (5, 2)?

A. 5 units

C. 3 units

B. 2 units

D. 7 units

10) A rectangular brick has volume 210 in^3 , length 14 in, and height 5 in. What is the width?

A. 2 in

C. 4 in

B. 3 in

D. 5 in



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1) Which statement is false?

A. $2.3 \times 10 = 23$

C. $0.23 \times 100 = 23$

B. $2.3 \times 100 = 230$

D. $0.023 \times 1000 = 2.3$

2) A piece of fabric is 12 feet long. If you cut it to $\frac{1}{4}$ of its original length, how long is the piece?

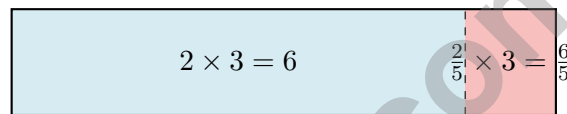
A. 6 feet

C. 12 feet

B. 9 feet

D. 3 feet

3) Multiply: $2\frac{2}{5} \times 3$



A. $7\frac{1}{5}$

C. 6

B. $6\frac{3}{5}$

D. 8

4) A small greenhouse model measures 12 meters long, 7 meters wide, and 2 meters tall. What is its volume?

A. 84 cubic meters

C. 14 cubic meters

B. 24 cubic meters

D. 168 cubic meters

5) Rank from smallest to largest: $\frac{1}{5} \times 25$, $\frac{5}{5} \times 25$, $\frac{9}{5} \times 25$.

A. $\frac{1}{5}, \frac{5}{5}, \frac{9}{5}$

C. $\frac{5}{5}, \frac{1}{5}, \frac{9}{5}$

B. $\frac{9}{5}, \frac{5}{5}, \frac{1}{5}$

D. All three are equal



Grade 5 Mathematics Reference Materials

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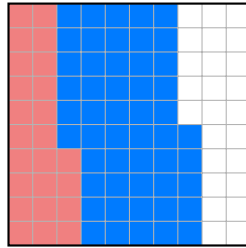
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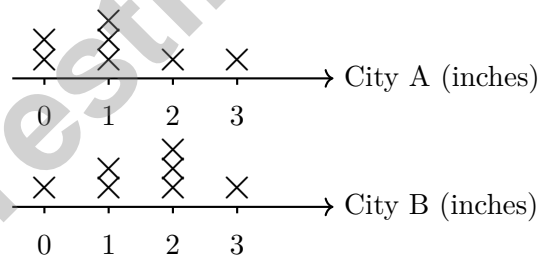


- 1) Use the hundredths grid to find $0.75 - 0.24$. The grid shows 0.75 shaded; remove 0.24 (the 24 darker squares).



0.75 shaded; remove 0.24 (darker)

- A. 0.51 C. 0.61
 B. 0.49 D. 0.99
- 2) What is $3 \times \frac{5}{6}$?
- A. $2\frac{1}{2}$ C. $\frac{8}{6}$
 B. $\frac{5}{18}$ D. $\frac{3}{6}$
- 3) Two line plots show rainfall (in inches) in two cities over several days:



What is the difference between total rainfall in both cities?

- A. 1 inch C. 3 inches
 B. 2 inches D. 4 inches



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 C is correct.** **(5.NF.B.7)** $3 \div \frac{1}{3} = 3 \times 3 = 9$. There are 9 segments.
- Choice D is correct.** **(5.NBT.A.1)** Multiplying 0.07 by 10 shifts the decimal point one place to the right: $0.07 \times 10 = 0.7$.
- Choice A is correct.** **(5.NBT.B.7)** Annex zeros: $5.00 - 2.37 = 2.63$. Borrow from ones place.
- Choice B is correct.** **(5.NBT.A.2)** $1.2 \times 0.5 = 0.6$, which is less than 1.2. Multiplying by a number less than 1 makes the result smaller.
- Choice C is correct.** **(5.MD.A.1)** Convert first: 3 yards = 108 inches, and 2 feet 6 inches = 30 inches. Ava uses $30 + 18 = 48$ inches, so $108 - 48 = 60$ inches are left.
- Choice C is correct.** **(5.NBT.A.2)** Both equal 5000: $50 \times 100 = 5000$ and $500 \times 10 = 5000$.
- Choice A is correct.** **(5.NF.A.2)** Orange and apple: $\frac{3}{5} + \frac{1}{4} = \frac{12}{20} + \frac{5}{20} = \frac{17}{20}$. Water: $1 - \frac{17}{20} = \frac{3}{20}$.
- Choice B is correct.** **(5.G.A.2)** An ordered pair tells how far to move right first, then how far to move up. The point is 5 units right and 3 units up, so it is (5, 3).
- Choice A is correct.** **(5.G.A.2)** The x-coordinate tells how many units right from the origin. For (5, 2), move 5 units right.
- Choice B is correct.** **(5.MD.C.4)** The known length and height make groups of $14 \times 5 = 70$ cubic inches. Since $210 \div 70 = 3$, the width is 3 in.
- Choice B is correct.** **(5.MD.B.2)** Count the X marks above 3. There are 3 X marks, so 3 students were absent exactly 3 days.
- Choice B is correct.** **(5.G.A.1)** Each N value is 4 more than the matching M value: $2 + 4 = 6$, $4 + 4 = 8$, $6 + 4 = 10$, and $8 + 4 = 12$.
- The correct answer is =.** **(5.NBT.A.3)** Trailing zero adds no value; both equal 7.2.
- Choice C is correct.** **(5.NF.B.6)** One yard has 5 fifth-yard pieces. $30 \div \frac{1}{5} = 30 \times 5 = 150$ wristbands.
- The correct answer is $\frac{7}{12}$.** **(5.NF.B.6)** Multiply across to get $\frac{14}{24}$. Both numbers are divisible by 2, so $\frac{14}{24} = \frac{7}{12}$.
- The correct answer is $\frac{1}{3}$.** **(5.MD.C.5)** $2 \times 3 = 6$ parts; overlap is $1 \times 2 = 2$ parts: $\frac{2}{6} = \frac{1}{3}$.
- Choice A is correct.** **(5.OA.A.1)** The student added before multiplying. Multiplication should happen first: $6 \times 2 = 12$, and then $4 + 12 = 16$.
- Choice D is correct.** **(5.G.B.4)** A square has four right angles, so it is a rectangle. It also has four equal sides, so it is a rhombus. Therefore, it belongs in the overlap of Rectangle and Rhombus.
- Choice C is correct.** **(5.MD.C.4)** Each layer has $4 \times 3 = 12$ unit cubes. With 2 layers, the total is $12 \times 2 = 24$ unit cubes.
- Choice A is correct.** **(5.MD.A.1)** 3 yards = $3 \times 3 = 9$ feet. Add 2 feet: $9 + 2 = 11$ feet.
- Choices A, B are correct.** **(5.NF.A.1)** A is true because 20 is a common denominator. B is true because $\frac{8}{20} + \frac{5}{20} = \frac{13}{20}$. C and D just add numerators/denominators.
- Choice B is correct.** **(5.NF.B.7)** $\frac{1}{4} \div 5 = \frac{1}{4} \times \frac{1}{5} = \frac{1}{20}$.
- Choice D is correct.** **(5.G.B.3)** A regular polygon has all sides of equal length and all angles of equal measure. The hexagon (D) is regular.
- Choice B is correct.** **(5.MD.C.3)** Find each part first: Prism A is $5 \times 4 \times 2 = 40$ cubic inches, and Prism B is $6 \times 4 \times 1 = 24$ cubic inches. Because the parts do not overlap, add them: $40 + 24 = 64$ cubic inches.
- Choice D is correct.** **(5.NF.A.2)** $1 = \frac{12}{12}$. $\frac{12}{12} - \frac{1}{12} = \frac{11}{12}$.
- Choice B is correct.** **(5.NBT.B.5)** Multiply: $31 \times 24 = 31 \times (20 + 4) = (31 \times 20) + (31 \times 4) = 620 + 124 = 744$ balls.
- Choice A is correct.** **(5.G.A.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).
- The correct answer is 6.** **(5.NF.B.6)** The question asks for $\frac{3}{4}$ of 8 cups, so multiply: $\frac{3}{4} \times 8 = 6$. The answer is 6 cups.
- Choice C is correct.** **(5.MD.C.3)** A small juice box needs a small unit. In the metric system, cubic centimeters are a good fit. Cubic meters are too large, and cubic feet or cubic inches are customary units rather than metric units.



Cheer Squad Final Pep Talk

Hey Math Superstar!

◇ 3 practice tests! That's a LOT of work, and you did it all! I'm cheering so loud right now you can probably hear me through this page. You've earned every clap, every hooray, and every smile. ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 3 times. That's why your confidence is real today. It's not pretend. You earned it, problem by problem. ★

Cheer Squad Roll Call

- **Effort:** 100% SHOWED UP!
- **Heart:** HUGE!
- **Skill:** STRONG and growing!
- **Spirit:** BRIGHT and bold!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I've got this. I've practiced. I'm ready." Tiny self-cheers make a big difference.

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 Cheerleader (Go You!)

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

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Track Progress & Improve

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



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