

10 COMPLETE

Idaho

ISAT

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



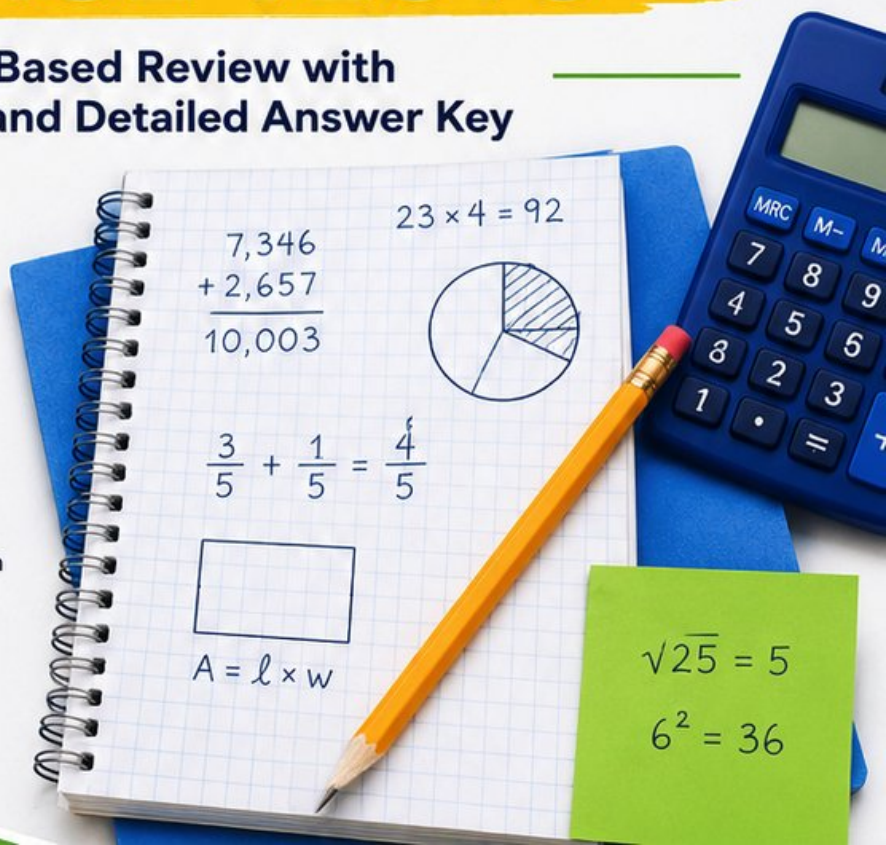
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

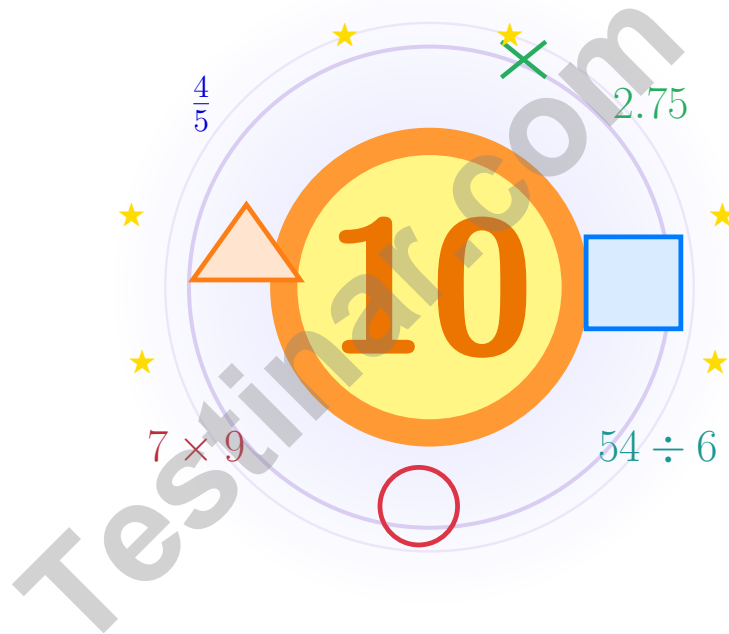
Step-by-step explanations for every question



**PREPARE.
PRACTICE.
SUCCEED!**

10 Idaho ISAT 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



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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.



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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

Week 1	Take Test 1 and notice your starting strengths.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and sharpen multiplication and division checks.
Week 4	Take Test 4 and focus on fractions and decimals.
Week 5	Take Test 5 and watch your labels and units closely.
Week 6	Take Test 6 and practice calmer pacing.
Week 7	Take Test 7 and compare your habits with the earlier weeks.
Week 8	Take Test 8 and focus on tidy, checkable work.
Week 9	Take Test 9 and compare your progress with the way you worked in the earlier weeks.
Week 10	Take Test 10 and finish with steady, confident effort while using every strong habit you built.



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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)

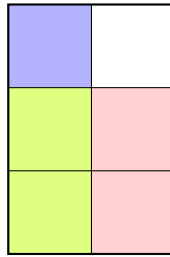
1 year = 12 months

1 day = 24 hours (hr)

1 year = 52 weeks



1) A rectangular plot of land has length $\frac{1}{2}$ mile and width $\frac{2}{3}$ mile. What is its area?

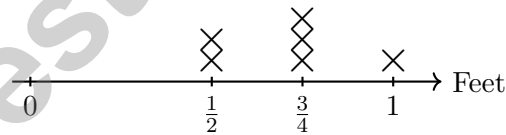


- A. $\frac{3}{5}$ square miles
- C. $\frac{1}{6}$ square miles
- B. $\frac{2}{5}$ square miles
- D. $\frac{1}{3}$ square miles

2) Find: 7.05×10^5 .

Record your answer in the space provided.

3) The line plot shows ribbon lengths, in feet. What is the total length of all the ribbons?



Record your answer in the space provided.



4) A batch of cookies has 48 cookies. If you eat $\frac{1}{8}$ of the batch, how many cookies do you eat?

A. 6 cookies

C. 24 cookies

B. 8 cookies

D. 40 cookies

5) Subtract using a common denominator: $\frac{11}{12} - \frac{1}{3}$.

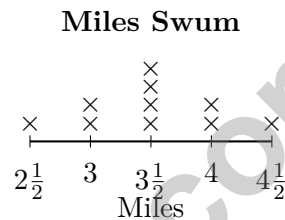
A. $\frac{8}{12} = \frac{2}{3}$

C. $\frac{10}{12}$

B. $\frac{7}{12}$

D. $\frac{9}{12}$

6) The line plot displays the distance each swimmer swam in a practice, in miles:



How many swimmers swam at least $3\frac{1}{2}$ miles?

A. 4

C. 6

B. 5

D. 7



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1 foot (ft) = 12 inches (in.)

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Metric

1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

Customary

1 pound (lb) = 16 ounces (oz)

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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

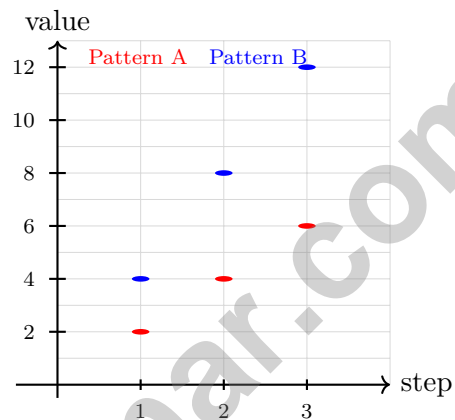
1 day = 24 hours (hr)

1 year = 52 weeks



- 1) Two patterns are shown on a coordinate grid. Pattern A is plotted at (1, 2), (2, 4), (3, 6). Pattern B is plotted at (1, 4), (2, 8), (3, 12). What rule describes the relationship?

Step	Pattern A	Pattern B
1	2	4
2	4	8
3	6	12



- A. Pattern B is 1 more than Pattern A C. Pattern B is twice Pattern A
 B. Pattern B increases by the step number D. Pattern B is 3 times the step number
- 2) Find the difference: $7\frac{3}{5} - 3\frac{1}{2}$.

Record your answer in the space provided.



40) Which fraction is NOT equivalent to $\frac{2}{4}$?

A. $\frac{1}{2}$

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

C. $\frac{4}{8}$

D. $\frac{3}{5}$

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End of Practice Test

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



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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.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice D is correct.** (5.MD.C.5) Area = $\frac{1}{2} \times \frac{2}{3} = \frac{2}{6} = \frac{1}{3}$ square miles.
- The correct answer is 705000.** (5.NBT.A.2) Move the decimal point five places right (filling in zeros): 7.05 → 705,000.
- The correct answer is $4\frac{1}{4}$ feet.** (5.MD.C.5) $3 \times \frac{3}{4} + 2 \times \frac{1}{2} + 1 = 2\frac{1}{4} + 1 + 1 = 4\frac{1}{4}$ feet.
- Choice A is correct.** (5.NF.B.5) $48 \times \frac{1}{8} = 6$ cookies. Multiplying by $\frac{1}{8}$ gives one-eighth of the original amount.
- Choice B is correct.** (5.NF.A.2) $\frac{1}{3} = \frac{4}{12}$, $\frac{11}{12} - \frac{4}{12} = \frac{7}{12}$.
- Choice D is correct.** (5.MD.B.2) Count X marks at $3\frac{1}{2}$, 4, and $4\frac{1}{2}$ miles. That is $4 + 2 + 1 = 7$ swimmers.
- Choice A is correct.** (5.G.A.2) A point with y-coordinate 0 lies on the x-axis. The point (9, 0) is 9 units right on the horizontal axis.
- Choice B is correct.** (5.NF.A.1) Add whole parts: $1 + 2 = 3$. Add fractions: $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$. Result: $3\frac{3}{5}$.
- Choice C is correct.** (5.MD.C.5) Choose the operation from the story, then keep the unit with the answer. Multiply: $8 \times 45 = 360$ seeds. This confirms the answer.
- Choice C is correct.** (5.NBT.A.2) $3.6 \times 4 = 14.4$. Following the pattern, each time the multiplier doubles, the product doubles.
- Choice C is correct.** (5.NF.A.2) The denominator 5 is multiplied by 5 to make 25. Multiply the numerator by 5 also: $\frac{4}{5} = \frac{20}{25}$.
- Choice B is correct.** (5.MD.C.4) The base area is $60 \times 30 = 1,800$ square feet. Since $18,000 \div 1,800 = 10$, the depth is 10 feet.
- Choice B is correct.** (5.NF.B.6) $\frac{3}{5} \times \frac{5}{6} = \frac{15}{30}$, which simplifies to $\frac{1}{2}$ meter.
- Choice A is correct.** (5.NF.A.2) LCD of 8 and 12 is 24. $\frac{7}{8} = \frac{21}{24}$ and $\frac{5}{12} = \frac{10}{24}$.
- Choice D is correct.** (5.NF.A.1) Rearrange: missing number = $9\frac{3}{5} - 4\frac{1}{5} = 5\frac{2}{5}$.
- The correct answer is 56.** (5.MD.A.1) Each pound has 16 ounces. Three pounds is $3 \times 16 = 48$ ounces, and $48 + 8 = 56$ ounces total.
- Choice A is correct.** (5.NBT.A.1) “Zero and three hundred twenty-one thousandths” means $0 + \frac{321}{1000}$, which is 0.321.
- Choices A, C, D are correct.** (5.G.B.4) Squares have four right angles, rectangles have two pairs of parallel sides, and squares are rectangles. Not every quadrilateral is a rectangle.
- Choice A is correct.** (5.NF.B.7) A whole divided into 5 equal parts of $\frac{1}{5}$ each is represented by $1 \div \frac{1}{5} = 5$.
- Choice B is correct.** (5.NBT.A.2) Each multiplier has one more zero, so each product is 10 times as large as the one before it. That moves the decimal one more place right, giving 4,000.
- Choice C is correct.** (5.MD.C.4) The known width and height make groups of $3 \times 8 = 24$ cubic centimeters. Since $168 \div 24 = 7$, the length is 7 cm.
- Choice C is correct.** (5.MD.A.1) Since 1 quart = 32 fl oz, multiply 2 by 32: $2 \times 32 = 64$ fl oz.
- Choice D is correct.** (5.NBT.A.3) $\frac{7}{10} = 0.7$ (tenths) and $\frac{1}{100} = 0.01$ (hundredths), so $4 + 0.7 + 0.01 = 4.71$.
- Choice D is correct.** (5.MD.A.1) 1 km = 1,000 m. Multiply: $125 \times 1000 = 125,000$ m.
- Choice B is correct.** (5.OA.A.2) A box has 12 bags, and each bag has 8 crayons. That means there are 12 equal groups of 8, which is represented by 12×8 .
- Choice C is correct.** (5.NF.B.6) $3\frac{1}{2} \times 2 = \frac{7}{2} \times 2 = \frac{14}{2} = 7$ square meters.
- Choice C is correct.** (5.MD.C.4) Use the rectangular-prism volume formula: $10 \times 3 \times 6 = 180$. So the volume is 180 cubic feet.
- Choice D is correct.** (5.NF.B.6) Compare products: A = $\frac{1}{4}$, B = $\frac{1}{3}$ (largest), C = $\frac{1}{6}$, D = $\frac{1}{8}$.
- Choice B is correct.** (5.G.B.4) A square always has two pairs of opposite parallel sides, which makes it a parallelogram by definition.
- Choice B is correct.** (5.NF.B.6) $\frac{6}{7} \approx 1$, $\frac{4}{9} \approx \frac{1}{2}$, and $\frac{1}{10} \approx 0$. So $\frac{6}{7} + \frac{4}{9} + \frac{1}{10} \approx 1 + \frac{1}{2} + 0 = 1\frac{1}{2}$.



A Mentor's Quiet Encouragement

To My Thoughtful Student,

◇ I want to take a moment, away from the noise of practice, to tell you something true: you have done excellent work. 10 practice tests is a real commitment. Most students do not finish what they start. You did. ◇

★ **What mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you tackle a problem today versus how you tackled it weeks ago. That growth is your real prize. ★

What I See In You

- **Determination:** DEEP. You don't quit when problems get tough.
- **Curiosity:** BRIGHT. You wonder why and how, not just "what's the answer."
- **Self-Awareness:** REAL. You know what you understand and what you're learning.
- **Kindness:** CONSISTENT. You're patient with yourself.

Mentor's note: on test day, treat yourself like you'd treat a friend. Be patient. Be encouraging. Be kind. The same skills that helped you finish 10 tests will carry you through the real one.

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 Mentor (Quietly Cheering)

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

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- ✓ Results-Driven.

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THIS BOOK HELPS YOUR CHILD:



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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.



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

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- ✓ 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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