

10 COMPLETE

Indiana

LEARN

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



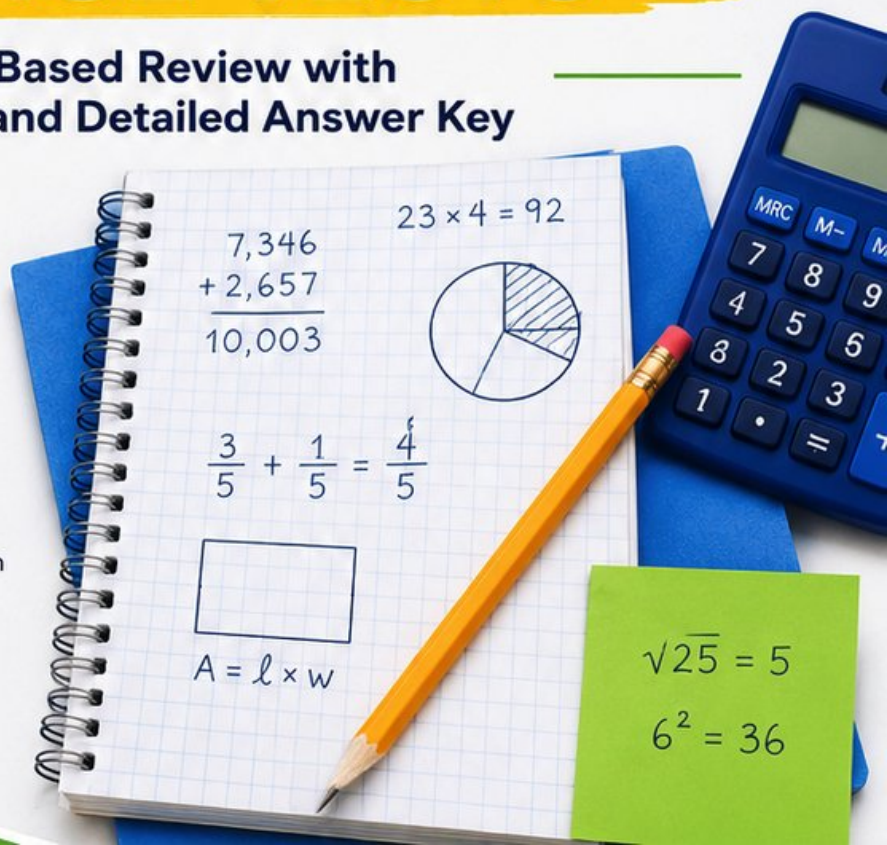
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

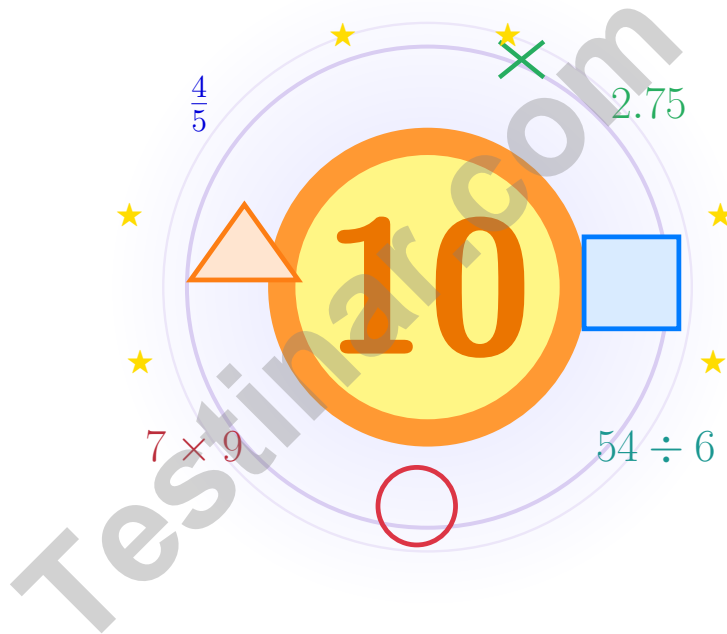
Step-by-step explanations for every question



**PREPARE.
PRACTICE.
SUCCEED!**

10 Indiana ILEARN 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.



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) Estimate: $\frac{7}{8} - \frac{3}{9}$.

A. 0

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

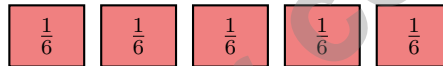
C. 1

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

2) Find: $9 \div \frac{1}{2}$.

Record your answer in the space provided.

3) Bar model with 5 groups of $\frac{1}{6}$:



What is $5 \times \frac{1}{6}$?

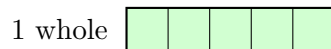
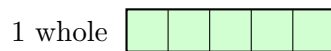
A. $\frac{5}{6}$

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

C. $\frac{1}{30}$

D. $\frac{5}{1}$

4) The model shows 2 wholes, with each whole cut into pieces of size $\frac{1}{5}$. How many pieces of size $\frac{1}{5}$ are there in all?



2 wholes, each cut into pieces of size $\frac{1}{5}$

A. 7

B. 5

C. 2

D. 10



- 5) One tenth gallon of glue is split equally among 5 teams. Which division equation finds each share?

A. $5 \div \frac{1}{10} = n$

B. $\frac{1}{10} \times 5 = n$

C. $5 + \frac{1}{10} = n$

D. $\frac{1}{10} \div 5 = n$

- 6) Identify the student who made an error and explain the mistake.

Student A: $1\frac{2}{3} \times 3 = \frac{5}{3} \times 3 = 5$

Student B: $2\frac{1}{4} \times 2 = 2 + (\frac{1}{4} \times 2) = 2 + \frac{1}{2} = 2\frac{1}{2}$

Record your answer in the space provided.

- 7) What is the missing quotient in this division chain?

$$816 \div 17 = 48 \quad 408 \div 17 = ?$$

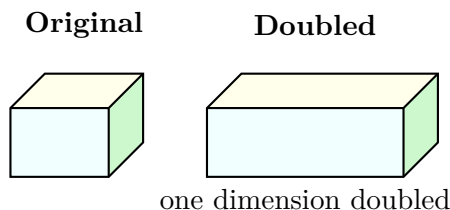
A. 24

B. 32

C. 40

D. 48

- 8) How does doubling one dimension of a rectangular prism affect its volume?



A. The volume stays the same

B. The volume is cut in half

C. The volume triples

D. The volume doubles



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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



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End of Practice Test

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



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

- 1) **Choice D is correct.** **(5.CA.3)** $\frac{7}{8} \approx 1$ and $\frac{3}{9} = \frac{1}{3} \approx \frac{1}{2}$. So $\frac{7}{8} - \frac{3}{9} \approx 1 - \frac{1}{2} = \frac{1}{2}$.
- 2) **The correct answer is 18.** **(5.CA.6)** Each whole contains 2 halves. Nine wholes contain $9 \times 2 = 18$ halves, so the quotient is 18.
- 3) **Choice A is correct.** **(5.CA.5)** Five bars of $\frac{1}{6}$ each: $5 \times \frac{1}{6} = \frac{5}{6}$.
- 4) **Choice D is correct.** **(5.CA.8)** Each whole contains 5 pieces of size $\frac{1}{5}$. With 2 wholes, there are $2 \times 5 = 10$ pieces.
- 5) **Choice D is correct.** **(5.CA.8)** The unit fraction is the amount being shared, so divide $\frac{1}{10}$ by 5. The equation is $\frac{1}{10} \div 5 = n$.
- 6) **The correct answer is Student B.** **(5.CA.7)** Student B forgot to multiply the whole number by 2. Correct: $2\frac{1}{4} \times 2 = \frac{9}{4} \times 2 = \frac{9}{2} = 4\frac{1}{2}$.
- 7) **Choice A is correct.** **(5.CA.1)** If $816 \div 17 = 48$, then 408 (half of 816) divided by 17 gives half the quotient: $408 \div 17 = 24$.
- 8) **Choice D is correct.** **(5.M.4)** Doubling one dimension makes twice as many equal layers or rows. Since the other dimensions stay the same, the total number of cubic units doubles.
- 9) **Choice C is correct.** **(5.M.4)** Each prism holds 20 unit cubes. Stacking three identical prisms gives $20 + 20 + 20 = 60$ unit cubes total.
- 10) **Choice D is correct.** **(5.M.2)** The model has 6 equal parts and 1 part is double-shaded, so the product is $\frac{1}{6}$.
- 11) **Choice D is correct.** **(5.M.1)** A, B, and C all have a value of 18. Choice D is $2 \times 2 \times 2 \times 2 - 2 = 16 - 2 = 14$, so it is not equal to the others.
- 12) **Choice A is correct.** **(5.CA.8)** Each mile has 6 sixth-mile sections. So $3 \div \frac{1}{6} = 3 \times 6 = 18$ sections.
- 13) **Choice C is correct.** **(5.M.5)** Find each part first: Prism A is $8 \times 2 \times 4 = 64$ cubic feet, and Prism B is $3 \times 5 \times 4 = 60$ cubic feet. Because the parts do not overlap, add them: $64 + 60 = 124$ cubic feet.
- 14) **Choice D is correct.** **(5.CA.3)** D is not in simplest form because $5\frac{3}{12}$ simplifies to $5\frac{1}{4}$. A, B, and C are already in simplest form.
- 15) **Choice B is correct.** **(5.CA.7)** First simplify: $\frac{4}{6} = \frac{2}{3}$. Then $\frac{2}{3} \times \frac{3}{8} = \frac{6}{24} = \frac{1}{4}$.
- 16) **Choice B is correct.** **(5.NS.3)** When multiplying by 1000, append three zeros: $3 \times 1000 = 3000$.
- 17) **Choice D is correct.** **(5.NS.3)** $60 \times 500 = 6 \times 5$ with three factor zeros, making 30,000 with 4 zeros. $3,000 \times 10$ also makes 30,000, so it has the same number of zeros.
- 18) **The correct answer is \$395.50.** **(5.CA.10)** Line up the decimal points and add the two money amounts: $\$189.00 + \$206.50 = \$395.50$. So the sandwich shop earned \$395.50 in all.
- 19) **Choice A is correct.** **(5.NS.1)** Fastest = shortest time. Order: $9.307 < 9.37 < 9.703 < 9.73$. Runners A, B, C, D.
- 20) **Choice A is correct.** **(5.CA.11)** The y-coordinate tells how many units up from the origin. For (3, 8), move 8 units up.
- 21) **Choices A, B are correct.** **(5.CA.10)** Two juice boxes cost $2 \times 1.25 = 2.50$, so A is true. Then $12.40 - 2.50 = 9.90$, so B is true. C and D miscalculate the totals.
- 22) **Choice C is correct.** **(5.CA.1)** A pentagon has 5 sides, while a quadrilateral has 4 sides. So a pentagon is not a quadrilateral.
- 23) **Choice C is correct.** **(5.CA.3)** Use tenths: $\frac{4}{5} = \frac{8}{10}$ and $\frac{1}{2} = \frac{5}{10}$. Then $\frac{8}{10} - \frac{5}{10} = \frac{3}{10}$.
- 24) **Choice C is correct.** **(5.M.4)** Base area = $6 \times 4 = 24 \text{ in}^2$. Volume = $24 \times 5 = 120 \text{ in}^3$.
- 25) **Choice A is correct.** **(5.NS.1)** Trailing zeros after the decimal point do not change the value, so $5.300 = 5.3 = 5.30$. They are equivalent.
- 26) **Choice C is correct.** **(5.CA.3)** $\text{LCM}(3,4) = 12$. $\frac{2}{3} = \frac{8}{12}$ and $\frac{1}{4} = \frac{3}{12}$. $\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$ cup.
- 27) **Choice B is correct.** **(5.NS.3)** Multiplying by 10^2 moves the decimal 2 places right: $0.5 \times 100 = 50$.
- 28) **The correct answer is 0.85.** **(5.NS.3)** Move the decimal point three places left: $850 \rightarrow 0.85$.
- 29) **Choice D is correct.** **(5.NS.1)** 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.



A Message From Your Math Partner

Hey there, Problem Solver!

◇ Incredible work! You've journeyed through 10 complete practice tests, and that's no small accomplishment! Each question you tackled strengthened your mathematical thinking. When you began, some problems might have felt overwhelming, but now you've developed the skills to break them down systematically. You've transformed into a confident mathematician who understands that persistence beats perfection every single time! ◇

★ **Here's something mathematicians understand:** mistakes are simply opportunities to learn something new. The greatest problem-solvers in history made countless errors before their breakthroughs. Through these 10 tests, you've practiced that same growth mindset. You've discovered that every challenging problem teaches you something valuable, and that knowledge stays with you forever! ★

Your Mathematical Growth Journey

- **Problem-Solving Skills:** EXCEPTIONALLY DEVELOPED! You can analyze complex situations with confidence!
- **Strategic Thinking:** SIGNIFICANTLY STRENGTHENED! You recognize patterns and apply effective strategies!
- **Persistence Level:** REMARKABLY HIGH! You've proven you can work through any challenge!
- **Test Readiness:** COMPLETELY PREPARED! You have all the tools you need to succeed!

Remember this: test day is your opportunity to demonstrate everything you've learned! You've completed 10 comprehensive practice tests; that's substantial preparation! You've analyzed problems, applied strategies, and developed mathematical confidence. Now it's time to showcase your abilities! Take a calming breath, trust your preparation, and remember that every skill you've built is ready to support you. You've got this!

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

Math Teacher and Your Cheer Squad

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

- ✓ Realistic. Rigorous.
- ✓ Results-Driven.

More practice today for a **stronger** tomorrow.



THIS BOOK HELPS YOUR CHILD:



Build Confidence

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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- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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