

10 COMPLETE

Arkansas

ATLAS

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



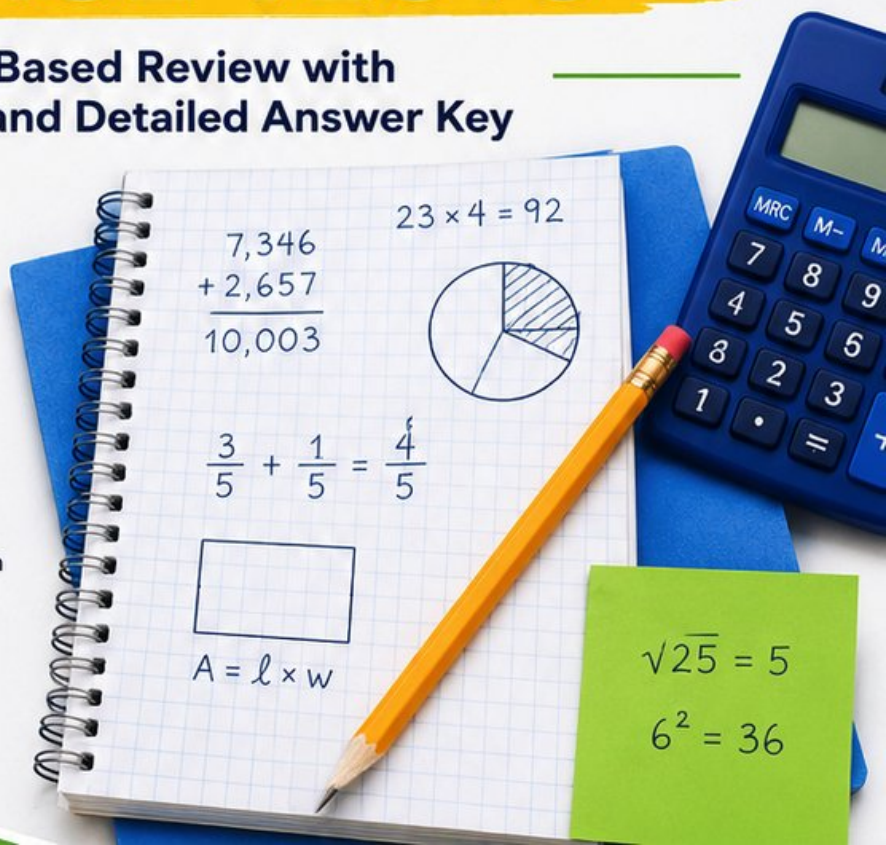
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

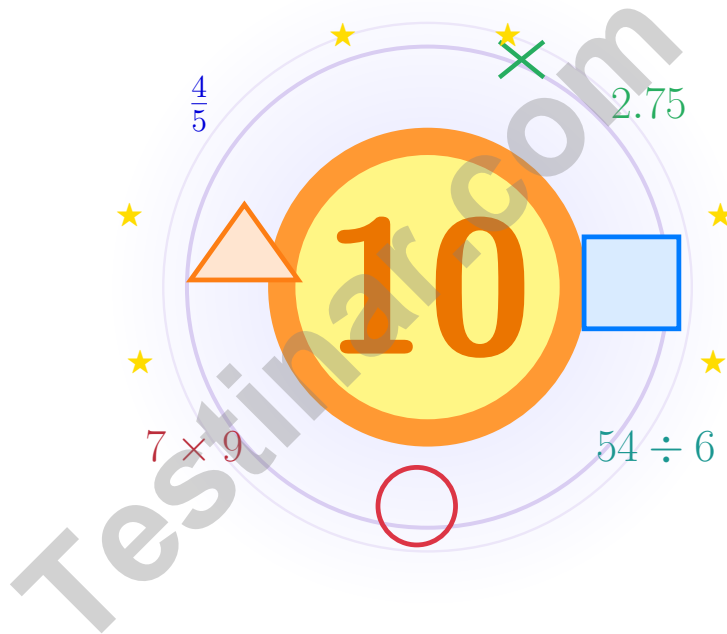
Step-by-step explanations for every question



**PREPARE.
PRACTICE.
SUCCEED!**

10 Arkansas ATLAS 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.



Scan me

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

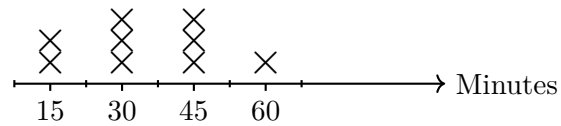
1 minute (min) = 60 seconds (sec) 1 week = 7 days

1 hour (hr) = 60 minutes (min) 1 year = 12 months

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



- 1) The line plot shows minutes spent on homework by students:



Marks are at 15-minute intervals. Find the total minutes.

- A. 300 minutes C. 330 minutes
 B. 450 minutes D. 315 minutes
- 2) Round 5.985 to the nearest hundredth.

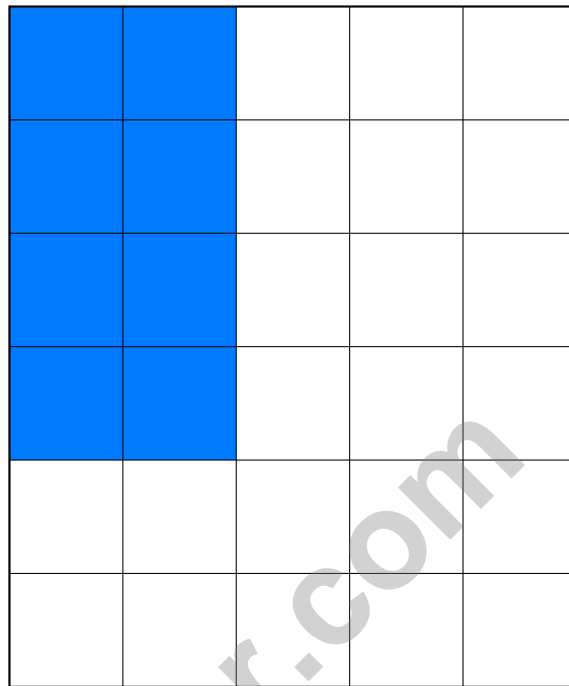
Record your answer in the space provided.

- 3) Evaluate 10^5 .

- A. 100000 C. 10000
 B. 50000 D. 1000
- 4) A scientist divides 189 grams of salt equally into 1,000 samples. How much salt is in each sample?
- A. 18,900 g C. 1.89 g
 B. 18.9 g D. 0.189 g



5) Grid model for $\frac{2}{5} \times \frac{4}{6}$. Which statement correctly gives the total and shaded cells?



$$\frac{2}{5} \times \frac{4}{6}$$

- A. Total cells: 20; Shaded: 4 C. Total cells: 30; Shaded: 8
 B. Total cells: 30; Shaded: 6 D. Total cells: 20; Shaded: 8

6) Use partial quotients to divide $765 \div 17$:

$$\begin{array}{r}
 765 \div 17 \\
 \hline
 17 \times 30 = 510 \quad 765 - 510 = 255 \\
 17 \times 15 = 255 \quad 255 - 255 = 0 \\
 \hline
 30 + 15 = 45
 \end{array}$$

- A. 43 C. 47
 B. 49 D. 45



Grade 5 Mathematics Reference Materials

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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



39) Which property is shared by ALL rectangles?

A. All sides are equal.

B. No sides are parallel.

C. All angles are acute.

D. All angles are right angles.

40) Which number is equivalent to 5.300?

A. 5.3

B. 5.03

C. 5.003

D. 500.3

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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.DA.2)** At 15 min: 2 students, at 30 min: 3 students, at 45 min: 3 students, and at 60 min: 1 student. Total: $(15 \times 2) + (30 \times 3) + (45 \times 3) + (60 \times 1) = 315$ minutes.
- 2) **The correct answer is 5.99.** **(5.NPV.4)** Thousandths digit is 5, which rounds the hundredths up from 8 to 9: 5.99.
- 3) **Choice A is correct.** **(5.NPV.2)** $10^5 = 10 \times 10 \times 10 \times 10 \times 10 = 100000$.
- 4) **Choice D is correct.** **(5.NPV.2)** Dividing by 1,000: $189 \div 1000 = 0.189$ g per sample.
- 5) **Choice C is correct.** **(5.NPV.6)** Grid: $5 \times 6 = 30$ cells. Shaded (2 of 5 columns, 4 of 6 rows): $2 \times 4 = 8$ cells. Answer: $\frac{8}{30} = \frac{4}{15}$.
- 6) **Choice D is correct.** **(5.CAR.2)** Partial quotients method: $17 \times 30 = 510$, leaving 255. Then $17 \times 15 = 255$. Sum: $30 + 15 = 45$. Check: $17 \times 45 = 765$.
- 7) **Choice C is correct.** **(5.DA.2)** When making the line plot, place one X for each measurement. $\frac{3}{4}$ appears 3 times, which is more than $\frac{1}{4}$ (1 time), $\frac{1}{2}$ (2 times), or 1 (2 times).
- 8) **Choice D is correct.** **(5.CAR.11)** Each whole contains 2 pieces of size $\frac{1}{2}$. With 4 wholes, there are $4 \times 2 = 8$ pieces.
- 9) **Choice B is correct.** **(5.NPV.3)** The decimal 0.63 is read as “sixty-three hundredths” because there are two decimal places (hundredths position). Avoid using “point” or “and” when reading decimals less than 1.
- 10) **Choice D is correct.** **(5.NPV.6)** Two rows of $\frac{2}{5}$: $2 \times \frac{2}{5} = \frac{4}{5}$.
- 11) **Choice B is correct.** **(5.GM.4)** The base area is $20 \times 8 = 160$ square meters. Since $800 \div 160 = 5$, the height is 5 m.
- 12) **Choice C is correct.** **(5.NPV.2)** Dividing by a power of 10 shifts the value to a smaller place. $2,400 \div 100 = 24$ employees per team. This confirms the answer.
- 13) **Choice C is correct.** **(5.CAR.11)** Each yard makes 4 quarter-yard markers. $25 \div \frac{1}{4} = 25 \times 4 = 100$ markers.
- 14) **Choice B is correct.** **(5.NPV.6)** Both expressions multiply 24 by a fraction. Since $\frac{4}{5} > \frac{2}{3}$, $\frac{4}{5} \times 24$ has the larger value.
- 15) **Choice A is correct.** **(5.CAR.3)** $13.07 - 8.95 = 4.12$. Requires borrowing from ones place.
- 16) **Choice D is correct.** **(5.NPV.5)** Shortest time = fastest. Compare: $6.204 < 6.24 < 6.402 < 6.42$. Dana’s time of 6.204 s is shortest.
- 17) **Choice D is correct.** **(5.NPV.1)** In 4.237, the digit 7 is in the third place after the decimal, which is the thousandths place.
- 18) **Choices A, B are correct.** **(5.GM.8)** A point with y-coordinate 0 is on the x-axis, so (5, 0) is on the x-axis. A point with x-coordinate 0 is on the y-axis, so (0, 7) is on the y-axis.
- 19) **Choice C is correct.** **(5.CAR.11)** Common denominator 12: $\frac{5}{12}$ and $\frac{1}{4} = \frac{3}{12}$. Difference: $\frac{5}{12} - \frac{3}{12} = \frac{2}{12}$. Cotton is more.
- 20) **Choice A is correct.** **(5.GM.4)** Use the rectangular-prism volume formula: $7 \times 3 \times 3 = 63$. So the volume is 63 cubic centimeters.
- 21) **Choice D is correct.** **(5.GM.8)** The first three points have second coordinates 3 more than the first. For (4, 8), $4 + 3 = 7$, not 8.
- 22) **Choice D is correct.** **(5.NPV.2)** Since $40 \times 50 = 2,000$ and $2,000 \div 10 = 200$, there are 200 groups of 10 in the product.
- 23) **Choice C is correct.** **(5.GM.4)** Total cost: $42.75 + 38.50 + 55.25 = 136.50$ dollars. Change: $150.00 - 136.50 = 13.50$ dollars.
- 24) **Choice B is correct.** **(5.GM.8)** We need a number that becomes 12 after adding 5. Since $7 + 5 = 12$, the missing x-value is 7.
- 25) **Choice A is correct.** **(5.CAR.3)** Hundredths: $75 + 38 = 113$ hundredths, which is 1 whole and 13 hundredths. Add that extra whole to $1 + 2$: the correct sum is 4.13. Nice careful regrouping keeps each place value in its place.
- 26) **Choice B is correct.** **(5.NPV.2)** Multiplying by 100 moves the decimal two places right: $2.5 \rightarrow 25 \rightarrow 250$.
- 27) **Choice A is correct.** **(5.CAR.5)** $\frac{5}{6} = \frac{10}{12}$ and $\frac{1}{4} = \frac{3}{12}$. Then $\frac{10}{12} - \frac{3}{12} = \frac{7}{12}$.
- 28) **Choice B is correct.** **(5.GM.1)** A rectangle is a quadrilateral with four right angles. It also has two pairs of parallel sides, so choices A and D are not true.
- 29) **Choice D is correct.** **(5.GM.1)** A square is both a rectangle and a rhombus, so it belongs in the overlap.



Case Closed: Success Ahead

Greetings, Math Detective!

◇ Outstanding investigation! You've cracked the code on 10 complete practice tests, examining every clue and solving every mathematical mystery like a brilliant detective! Each problem was a puzzle, and you methodically gathered evidence, analyzed patterns, and reached accurate conclusions. That analytical thinking you've developed will serve you well on test day and beyond! ◇

★ **Here's what master detectives know:** not every case solves itself immediately. Sometimes you need to examine the evidence from different angles, try various approaches, and remain persistent until you crack the code. You've practiced exactly that through these 10 tests! Your investigative skills have sharpened considerably, and you're ready to solve any mathematical mystery that comes your way! ★

Detective's Case File: Your Skills

- **Clue Collection:** You gather all important information from problems before solving!
- **Pattern Recognition:** You identify mathematical patterns like a trained investigator!
- **Evidence Analysis:** You evaluate which strategies work best for each problem type!
- **Case Resolution:** You stay focused until you've found the correct solution!

Detective wisdom: the best investigators take notes about their methods so they can solve similar cases faster in the future. Your brain has been doing exactly that throughout these 10 tests, storing successful strategies in your mental filing cabinet. On test day, you'll be able to retrieve those proven methods instantly!

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 Detective Coach

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

- ✓ 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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