

10 COMPLETE

Maryland

MCAP

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



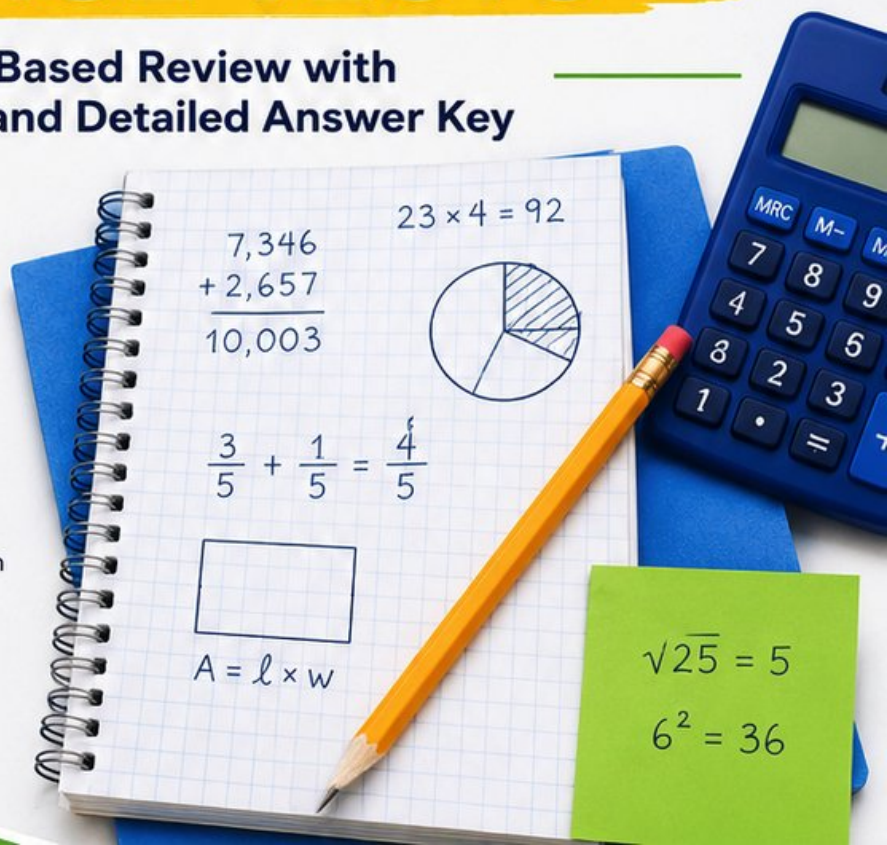
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

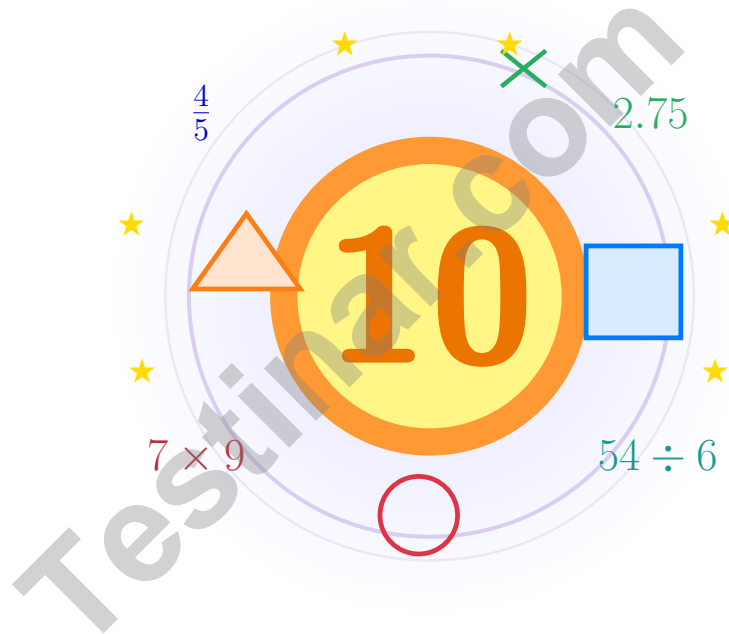
Step-by-step explanations for every question



**PREPARE.
PRACTICE.
SUCCEED!**

10 Maryland MCAP 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.



Table of Contents

★ Practice Test 1	_____	21
★ Practice Test 2	_____	36
★ Practice Test 3	_____	52
★ Practice Test 4	_____	66
★ Practice Test 5	_____	80
★ Practice Test 6	_____	95
★ Practice Test 7	_____	112
★ Practice Test 8	_____	124
★ Practice Test 9	_____	137
★ Practice Test 10	_____	150
Practice Test Answer Keys	_____	164
Practice Test Answers and Explanations	_____	170

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) Which product is the smallest?

$$A: 7 \times \frac{1}{3}$$

$$B: 7 \times \frac{2}{3}$$

$$C: 7 \times 1$$

$$D: 7 \times \frac{5}{3}$$

A. A

C. C

B. B

D. D

2) Is the difference $7 - 4\frac{1}{12}$ closer to 2 or 3?

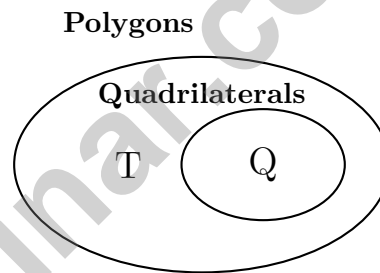
A. Closer to 2

C. Exactly between 2 and 3

B. Closer to 4

D. Closer to 3

3) A Venn diagram shows quadrilaterals inside polygons:



Why could a triangle be placed in the region labeled T?

A. It is a polygon, but it does not have 4 sides.

C. It is not a polygon.

B. It has 4 sides and 4 right angles.

D. It has two pairs of parallel sides.



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1) Which is the correct first step before adding $1\frac{3}{4} + 2\frac{5}{8}$? (Common Denominator)

A. Convert $1\frac{3}{4}$ to $1\frac{6}{8}$

C. Add denominators: $4 + 8 = 12$

B. Add numerators: $3 + 5 = 8$

D. Regroup the fractions only

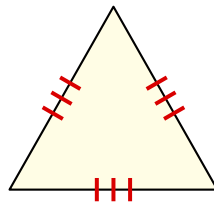
2) Find: $1,176 \div 24$.

Record your answer in the space provided.

3) Write an expression for: multiply 3 by the sum of 9 and 12.

Record your expression in the space provided.

4) Look at the triangle diagram. Count the tick marks on each side to classify it.



A. Equilateral (all equal)

C. Scalene (all different)

B. Isosceles (two equal)

D. Right triangle



39) Divide: $912 \div 19$

A. 45

B. 48

C. 50

D. 52

40) What is $3.87 + 4.92$?

A. 7.79

B. 8.79

C. 8.69

D. 9.79

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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

- Choice A is correct.** (5.NF.B.5) $\frac{1}{3}$ is the smallest factor, so $7 \times \frac{1}{3}$ is the smallest product.
- Choice D is correct.** (5.NF.A.2) $4\frac{1}{12} \approx 4$. So $7 - 4\frac{1}{12} \approx 7 - 4 = 3$.
- Choice A is correct.** (5.G.B.4) Triangles are polygons with 3 sides, so they belong inside polygons but outside quadrilaterals.
- Choice A is correct.** (5.NF.B.7) Start with one unit fraction, $\frac{1}{2}$, and share it into 2 equal parts. Each part is $\frac{1}{2} \div 2 = \frac{1}{4}$ of the whole.
- The correct answer is 3.47.** (5.NBT.A.3) Read the place value to decide whether the decimal uses tenths, hundredths, or thousandths. Three wholes, then 47 hundredths: 3.47. This confirms the answer.
- Choice D is correct.** (5.NF.A.2) LCD = 12. $\frac{3}{4} = \frac{9}{12}$; $\frac{1}{3} = \frac{4}{12}$. $\frac{9}{12} - \frac{4}{12} = \frac{5}{12}$.
- Choice D is correct.** (5.MD.A.1) Convert one yard first: 1 yard = 3 feet, and 3 feet = 36 inches. So $2 \times 36 = 72$ inches.
- Choice D is correct.** (5.NBT.A.2) Dividing by 100 moves the decimal 2 places left: $9.3 \rightarrow 0.93 \rightarrow 0.093$.
- Choice B is correct.** (5.MD.C.5) The vertical shading covers $\frac{4}{7}$ of the width and the horizontal shading covers $\frac{1}{3}$ of the height. The overlap is $\frac{1}{3} \times \frac{4}{7} = \frac{4}{21}$.
- Choice D is correct.** (5.NBT.A.2) 20×5 makes 100, which ends with exactly 2 zeros. The other choices do not end with exactly 2 zeros.
- Choice B is correct.** (5.NBT.B.5) Multiply: $15 \times 23 = 15 \times (20 + 3) = (15 \times 20) + (15 \times 3) = 300 + 45 = 345$ plants.
- Choice C is correct.** (5.G.A.2) Point (3, 7) has neither the same x -coordinate (6) nor the same y -coordinate (5) as (6, 5). The other three points share either an x - or y -coordinate with (6, 5).
- Choice C is correct.** (5.G.A.2) Both points have the same x -coordinate (3), so the distance is $9 - 4 = 5$ miles north.
- Choice C is correct.** (5.NBT.A.2) A power of 10 tells how many factors of 10 to use. $10^3 = 10 \times 10 \times 10 = 1000$. This confirms the answer.
- Choice D is correct.** (5.NBT.A.4) \$14.50 rounds up to \$15 and is the smallest amount shown that rounds to \$15. \$14.49 rounds to \$14, \$15.50 rounds to \$16, and \$13.50 rounds to \$14.
- Choice B is correct.** (5.NF.B.7) The known dimensions make a base area of $7 \times 8 = 56$ square meters. Since $336 \div 56 = 6$, the third dimension is 6 meters.
- Choice C is correct.** (5.NF.A.1) $11\frac{3}{4} - 6\frac{1}{4} = 5\frac{2}{4} = 5\frac{1}{2}$ lb.
- Choice D is correct.** (5.NBT.B.7) Line up decimal points and subtract place by place. $12.50 - 8.75 = 3.75$ miles. This confirms the answer.
- Choices A, B are correct.** (5.G.A.2) Each correct point has a second coordinate that is twice its first coordinate. C and D do not match that relationship.
- The correct answer is 11.37.** (5.NBT.B.7) Write each to two decimals: $9.50 + 0.67 + 1.20 = 11.37$.
- Choice A is correct.** (5.G.A.2) Adding the same input twice is the same as multiplying it by 2. So $x + x$ can be written as $2x$.
- The correct answer is $\frac{3}{8}$.** (5.MD.B.2) The line plot should show one X at $\frac{1}{8}$, two X's at $\frac{1}{4}$, three X's at $\frac{3}{8}$, and one X at $\frac{1}{2}$. The value $\frac{3}{8}$ appears 3 times, which is more than any other value.
- Choice A is correct.** (5.NBT.B.7) $4.5 \div 5 = 0.9$, which is between 0 and 1.
- The correct answer is 24.** (5.OA.B.3) Multiply the Pattern A value by 6: $6 \times 4 = 24$.
- Choice A is correct.** (5.NBT.B.7) In the hundredths place: 3.004 has 0 hundredths, 3.04 has 4 hundredths. So $3.004 < 3.04$.
- Choice A is correct.** (5.NF.B.6) $\frac{1}{3} \times 30 = \frac{30}{3} = 10$.
- Choice A is correct.** (5.G.B.4) All three angles measure 60 degrees, which is less than 90 degrees. A triangle with all angles less than 90 degrees is acute.
- Choice C is correct.** (5.NF.B.7) $3 \div \frac{1}{6} = 3 \times 6 = 18$ cups.



Notes From the Math Gardener

Dear Math Gardener,

◇ Look at how much you've grown! 10 practice tests is like 10 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 10 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 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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