

10 COMPLETE

Colorado

CMAS

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



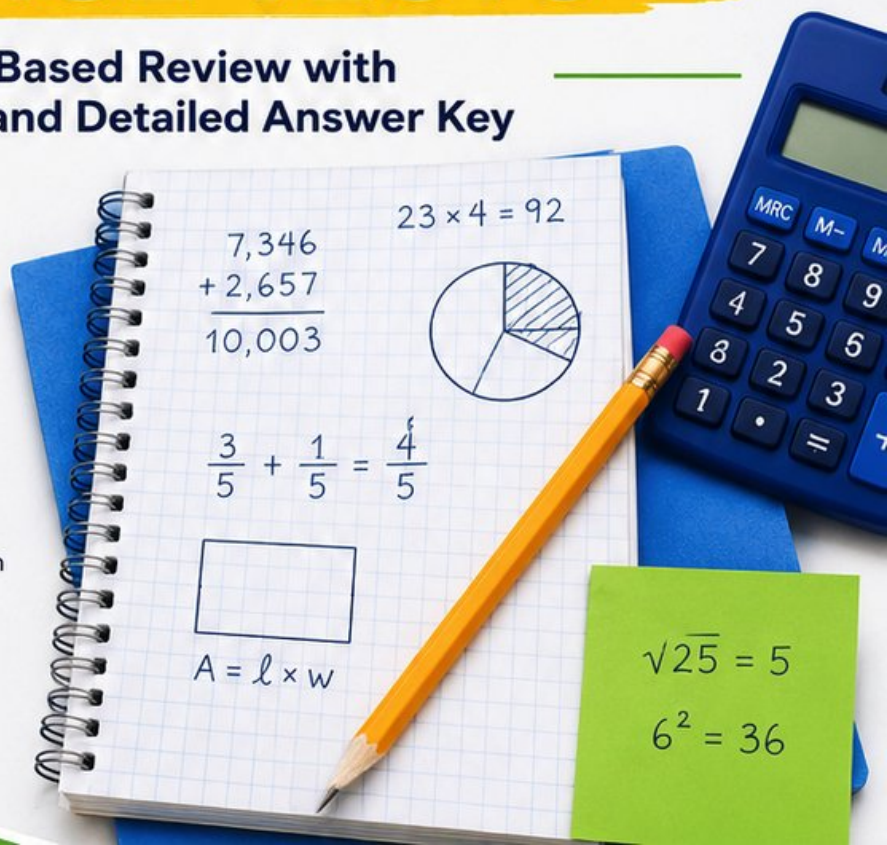
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

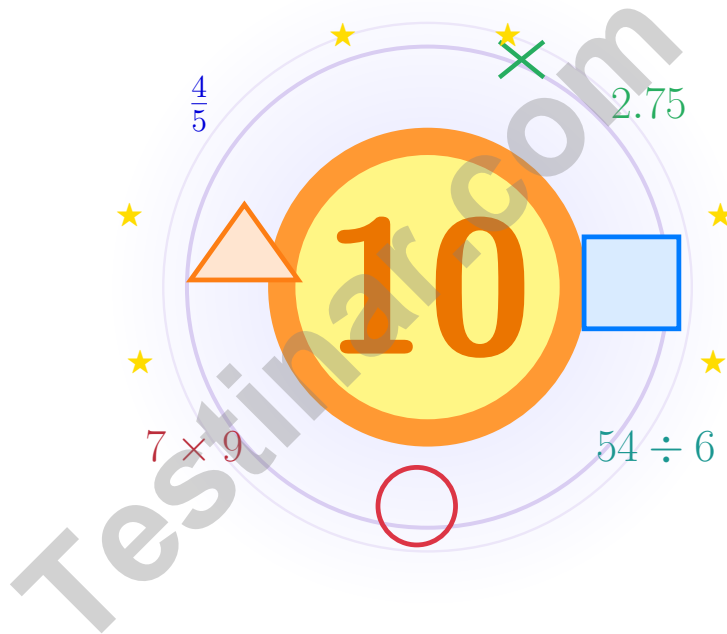
Step-by-step explanations for every question



**PREPARE.
PRACTICE.
SUCCEED!**

10 Colorado CMAS 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

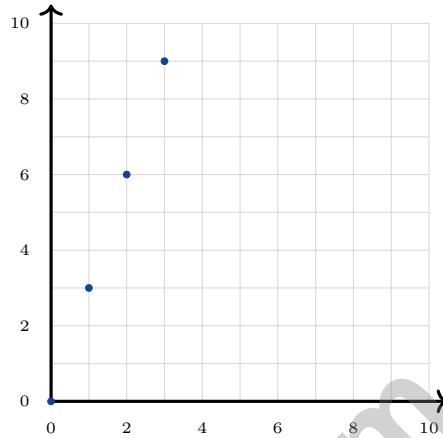
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



- 1) Which graph correctly shows the pattern from Rule A: +1 starting at 0, and Rule B: +3 starting at 0?



- A. Shown graph is correct C. All x -values should be doubled
 B. All y -values should be doubled D. The axes are swapped

- 2) Write a division equation for: $\frac{1}{3}$ yard of ribbon shared equally among 4 students.

Record your answer in the space provided.

- 3) A rectangular aquarium has a base measuring 18 in \times 12 in and a height of 10 in. What is its volume?

Aquarium
Base 18 in \times 12 in, Height 10 in

- A. 1800 in³ C. 2160 in³
 B. 2000 in³ D. 2400 in³



- 4) Four athletes' sprint times (in seconds) are shown. Who ran the fastest (shortest time)?

| Athlete | Time (seconds) |
|---------|----------------|
| Alex | 12.45 |
| Jordan | 12.54 |
| Casey | 12.35 |
| Morgan | 12.40 |

- A. Alex C. Casey
 B. Jordan D. Morgan
- 5) A recipe needs $\frac{2}{3}$ cup flour and $\frac{1}{4}$ cup cocoa. How much dry ingredients in all?

Record your answer in the space provided.

- 6) Multiply: $2\frac{1}{3} \times 3$

- A. 8 C. 6
 B. 9 D. 7



Grade 5 Mathematics Reference Materials

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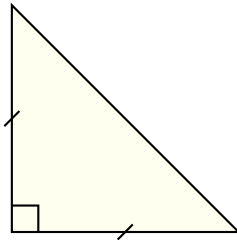
1 day = 24 hours (hr) 1 year = 52 weeks



1) Which number, when multiplied by 100, gives 45?

- A. 0.045 C. 4.5
 B. 450 D. 0.45

2) Look at the triangle. Which two classifications describe it?



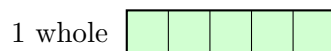
- A. Acute and scalene C. Obtuse and isosceles
 B. Right and isosceles D. Equilateral and right

3) Without calculating, which is greatest?



- A. 20 C. 3×20
 B. 2×20 D. $20 \div 2$

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



1 whole cut into pieces of size $\frac{1}{5}$

- A. 6 C. 1
 B. 5 D. 10



40) Without evaluating, complete the statement: The value of $(35 + 12)$ is _____ the value of $2 \times (35 + 12)$.

- A. half as large as
- B. twice as large as

- C. the same as
- D. three times as large as

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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

- 1) **Choice A is correct.** **(5.G.A.2)** Rule A (+1): 0, 1, 2, 3; Rule B (+3): 0, 3, 6, 9. Pairs (0,0), (1,3), (2,6), (3,9) are plotted correctly.
- 2) **The correct answer is $\frac{1}{3} \div 4 = n$.** **(5.NF.B.6)** The one-third yard is shared into 4 equal parts, so the response should include a division equation such as $\frac{1}{3} \div 4 = n$. The final value $\frac{1}{12}$ may be included if the equation is shown.
- 3) **Choice C is correct.** **(5.MD.C.4)** Volume = $18 \times 12 \times 10 = 216 \times 10 = 2160 \text{ in}^3$.
- 4) **Choice C is correct.** **(5.NBT.B.7)** The fastest time is the smallest: $12.35 < 12.40 < 12.45 < 12.54$. Casey's time of 12.35 seconds is fastest.
- 5) **The correct answer is $\frac{11}{12}$.** **(5.NF.A.2)** LCD 12: $\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$.
- 6) **Choice D is correct.** **(5.NF.B.4)** Convert to an improper fraction: $2\frac{1}{3} = \frac{7}{3}$. Multiply: $\frac{7}{3} \times 3 = \frac{7 \times 3}{3} = 7$.
- 7) **The correct answer is $4\frac{1}{2}$ L.** **(5.MD.B.2)** Add the measurements shown: $\frac{1}{2} + \frac{3}{4} + \frac{3}{4} + 1 + 1\frac{1}{2} = 4\frac{1}{2}$ liters.
- 8) **Choice A is correct.** **(5.NBT.A.2)** $87 \times 10 = 870$. Append one zero to 87.
- 9) **Choice C is correct.** **(5.OA.A.1)** First solve the parentheses: $7 + 3 = 10$. Then multiply, $6 \times 10 = 60$, and subtract 20 to get 40.
- 10) **Choice D is correct.** **(5.NBT.B.6)** Use compatible numbers close to the original problem: $4,927 \approx 4,900$ and $73 \approx 70$. Then $4,900 \div 70 = 70$.
- 11) **Choice C is correct.** **(5.MD.C.3)** Volume measures the amount of space inside a solid figure, so it is measured in cubic units such as cubic inches.
- 12) **Choice B is correct.** **(5.G.B.3)** 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.
- 13) **Choice A is correct.** **(5.G.A.1)** The x-coordinate tells how many units right from the origin. For (5, 2), move 5 units right.
- 14) **Choice A is correct.** **(5.OA.A.2)** Sandy is right because the grouped product is $2 \times 4 = 8$. So $8 + (2 \times 4)$ becomes $8 + 8$.
- 15) **Choice C is correct.** **(5.MD.C.5)** One box has volume $3 \times 3 \times 3 = 27$ cubic meters. There are 6 boxes, so $27 \times 6 = 162$ cubic meters.
- 16) **Choice D is correct.** **(5.NBT.A.1)** If we multiply by 10 to get 7.2, then the starting number was $7.2 \div 10 = 0.72$.
- 17) **Choice B is correct.** **(5.NF.A.1)** Add: $2\frac{1}{6} + 4\frac{5}{6} = 6\frac{6}{6} = 7$.
- 18) **Choices A, B are correct.** **(5.NF.B.7)** C gives the wrong quotient, and D uses 4 instead of the reciprocal $\frac{1}{4}$.
- 19) **The correct answer is $\frac{12}{16}$.** **(5.NF.A.2)** Multiply numerator and denominator by 4: $\frac{3 \times 4}{4 \times 4} = \frac{12}{16}$.
- 20) **Choice B is correct.** **(5.NBT.A.2)** Dividing by 10 moves the decimal one place left, so 2,478 becomes 247.8.
- 21) **Choice C is correct.** **(5.NBT.A.4)** The tenths place in 47.863 is 8. The hundredths place is 6. Since 6 is greater than or equal to 5, we round the tenths digit up from 8 to 9. Therefore, 47.863 rounded to the nearest tenth is 47.9.
- 22) **Choice A is correct.** **(5.NBT.B.7)** Write $12.30 - 4.56 = 7.74$. Annex zero to match place values.
- 23) **Choice D is correct.** **(5.MD.C.4)** One box has volume $3 \times 3 \times 2 = 18$ cubic feet. Ten boxes have total volume $18 \times 10 = 180$ cubic feet.
- 24) **Choice D is correct.** **(5.OA.A.1)** The parentheses give $6 + 9 = 15$, and $2 \times 2 = 4$. Then $15 \times 4 = 60$, and $60 - 12 = 48$.
- 25) **The correct answer is 7.** **(5.MD.B.2)** Each X represents one measurement. Add the X's at each value: $2 + 4 + 1 = 7$ measurements total.
- 26) **Choice D is correct.** **(5.NF.B.4)** $4 \times \frac{3}{8} = \frac{12}{8} = 1\frac{1}{2}$ square meters.
- 27) **Choice B is correct.** **(5.G.A.2)** The first coordinate, 9, matches the x-axis label: weeks. The second coordinate, 45, matches the y-axis label: dollars saved. So the point means dollars saved is 45 when weeks is 9.
- 28) **Choice A is correct.** **(5.OA.A.2)** First divide the cupcakes equally: $24 \div 6$ per box. Then 2 cupcakes are removed from each box, so subtract 2 after dividing.
- 29) **Choice D is correct.** **(5.G.B.3)** One 90-degree angle = right; all different sides = scalene. Combined: right scalene.
- 30) **Choice D is correct.** **(5.NBT.B.7)** Align decimals: $3.40 + 0.27$. Hundredths: $0 + 7 = 7$; tenths: $4 + 2 = 6$; ones: $3 + 0 = 3$. Sum is 3.67.



Trail Guide's Final Briefing

Brave Trail-Walker,

◇ You've walked all 10 miles of the practice trail. You've seen smooth paths, steep climbs, narrow passes, and clearings. Every step taught you something about yourself and your math skills. ◇

★ **What trail guides know:** the most important thing is to keep moving. Slow steps still get you where you need to go. You've practiced that exact pace, and now your stride is steady. ★

Trail Survey Report

- **Route Knowledge:** STRONG! You recognize different types of math problems.
- **Pacing:** STEADY! You don't rush, and you don't drag.
- **Pack Loaded:** READY! You have all the strategies you need.
- **Trail Confidence:** HIGH! You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route you know. The summit is just one steady walk away.

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

Your Math Trail Guide (Keep Walking)

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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- ✓ 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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