

10 COMPLETE Tennessee TCAP

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



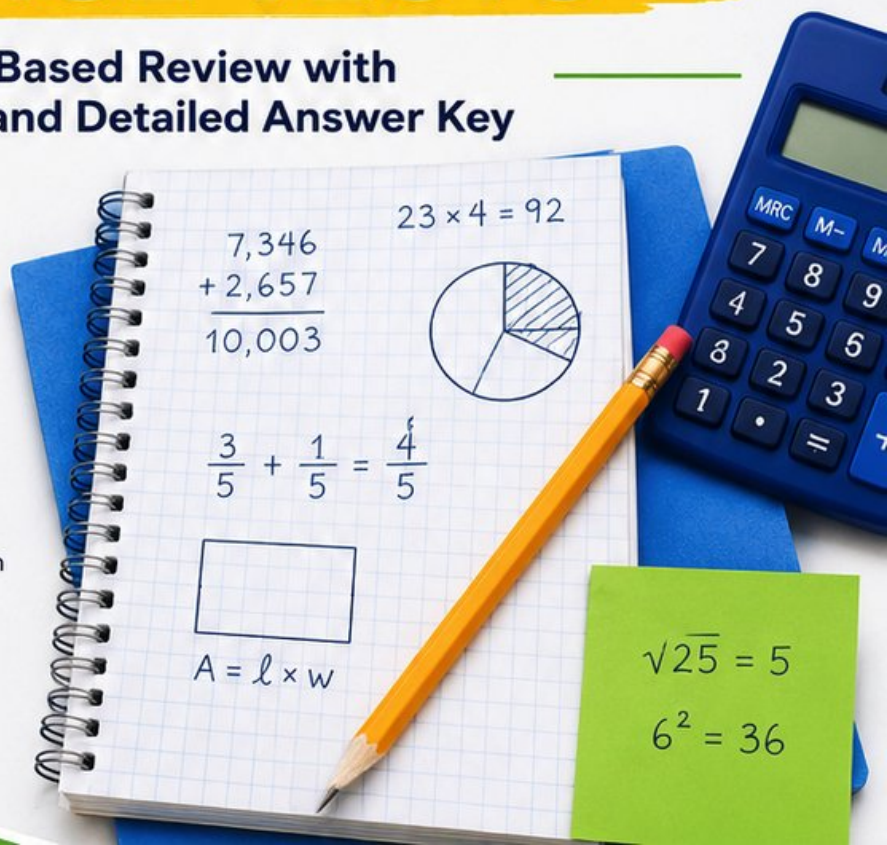
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

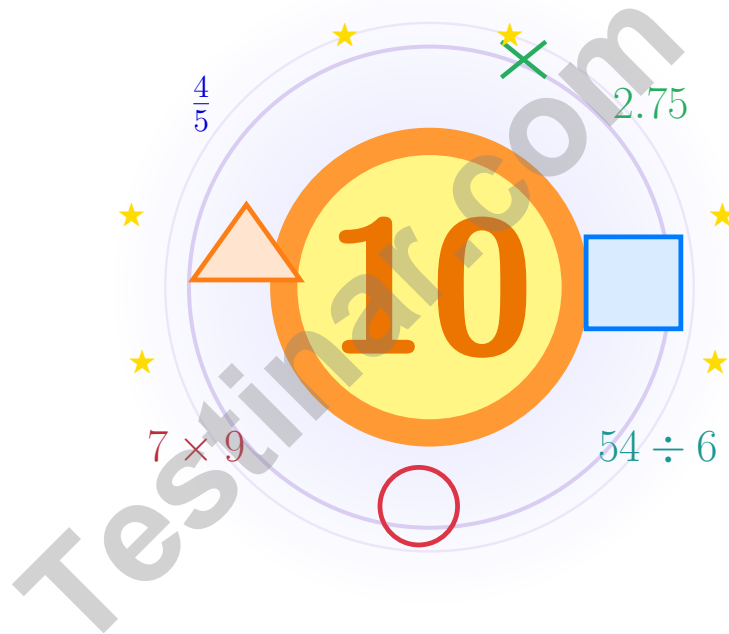
Step-by-step explanations for every question



PREPARE.
PRACTICE.
SUCCEED!

10 Tennessee TCAP 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



- 5) A sports store tracks sales. The table compares basketballs and footballs sold. Which relationship is true?

| | | | | |
|--------------------|----|----|----|----|
| Basketballs | 5 | 10 | 15 | 20 |
| Footballs | 10 | 20 | 30 | 40 |

- A. Football sales are 3 more than basketball sales
- B. Football sales are double basketball sales
- C. Football sales are double basketball sales, then 2 less
- D. Football sales are 8 more than basketball sales
- 6) Which statement about a rectangle must be true?
- A. It has exactly one pair of equal sides.
- B. It has four right angles.
- C. It has four sides that are all the same length.
- D. It has no parallel sides.
- 7) Find the sum and express as a mixed number: $\frac{5}{6} + \frac{3}{4}$
- A. $\frac{8}{10}$
- B. $\frac{19}{10}$
- C. $1\frac{7}{12}$
- D. $\frac{9}{12}$
- 8) Use $V = l \times w \times h$ to find the volume: $l = 8$, $w = 5$, $h = 3$.

Record your answer in the space provided.



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TIME

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

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



37) One twelfth of a garden row is divided into 4 equal parts. Which division equation finds each share?

A. $4 \div \frac{1}{12} = n$

B. $\frac{1}{12} \times 4 = n$

C. $4 + \frac{1}{12} = n$

D. $\frac{1}{12} \div 4 = n$

38) Find the difference: $\frac{4}{5} - \frac{2}{15}$.

Record your answer in the space provided.

39) Which two decimals are equivalent?

A. 0.205 and 0.25

B. 0.302 and 0.32

C. 0.750 and 0.75

D. 0.601 and 0.61

40) A classroom is 9 meters long, 8 meters wide, and 3 meters high. What is the volume of air in the classroom?

A. 20 cubic meters

B. 108 cubic meters

C. 156 cubic meters

D. 216 cubic meters

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.NBT.B.7)** $45.6 \div 8 = 5.7$. Divide $456 \div 8 = 57$, then place decimal one place from right: 5.7 .
- 2) **Choice D is correct.** **(5.MD.C.3)** Base area: $4 \times 3 = 12$ sq. units. Total volume: $12 \times 5 = 60$ cubic units.
- 3) **Choice B is correct.** **(5.MD.A.1)** 1 liter = 1,000 milliliters. Multiply: $3.5 \times 1000 = 3500$ mL.
- 4) **Choice B is correct.** **(5.NBT.A.2)** $7.4 \times 10 = 74$ and $74 \times 1 = 74$, so they are equal.
- 5) **Choice B is correct.** **(5.G.A.1)** Football sales are double basketball sales: $2 \times 5 = 10$, $2 \times 10 = 20$, $2 \times 15 = 30$, and $2 \times 20 = 40$.
- 6) **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.
- 7) **Choice C is correct.** **(5.NF.A.1)** $\text{LCM}(6,4) = 12$. $\frac{5}{6} = \frac{10}{12}$ and $\frac{3}{4} = \frac{9}{12}$. $\frac{10}{12} + \frac{9}{12} = \frac{19}{12} = 1\frac{7}{12}$.
- 8) **The correct answer is 120.** **(5.MD.C.4)** Use the rectangular-prism formula $V = l \times w \times h$. Multiply $8 \times 5 \times 3 = 120$ cubic units.
- 9) **Choice A is correct.** **(5.MD.B.2)** The least value on the line plot is 1 hour, which has 1 X mark.
- 10) **Choice D is correct.** **(5.MD.B.2)** At 80: 3 marks, At 90: 3 marks, At 100: 2 marks. Total: $3 + 3 + 2 = 8$ students scored 80 or higher.
- 11) **Choice A is correct.** **(5.OA.A.2)** The parentheses tell us to divide 6 by 2 first. Then the result is multiplied by 4, matching choice A.
- 12) **Choice A is correct.** **(5.NBT.A.1)** In 1.254, the hundredths digit is 5, so the missing term is 0.05 (or $\frac{5}{100}$).
- 13) **Choice B is correct.** **(5.G.A.2)** The points are (0,0), (1,2), (2,4), and so on, so the distance is twice the time.
- 14) **The correct answer is $7 \div \frac{1}{2} = 14$.** **(5.NF.B.6)** We are counting how many halves fit in 7 wholes, so $7 \div \frac{1}{2} = 14$. Accept an equivalent division equation or the final value.
- 15) **Choice C is correct.** **(5.NF.A.1)** $18\frac{3}{5} - 12\frac{2}{5}$: subtract whole numbers $18 - 12 = 6$ and fractions $\frac{3}{5} - \frac{2}{5} = \frac{1}{5}$. Combine to get $6\frac{1}{5}$ miles.
- 16) **Choice C is correct.** **(5.MD.A.1)** Sugar for cake = $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$ of the 5-pound bag. Since $\frac{3}{8} \times 5 = \frac{15}{8} = 1\frac{7}{8}$, she used $1\frac{7}{8}$ pounds.
- 17) **Choice A is correct.** **(5.G.A.2)** Each y is double x , showing the doubling relationship.
- 18) **Choices A, B are correct.** **(5.NBT.B.7)** 3.17 and 3.24 both round to 3.2 to the nearest tenth. 3.25 rounds up to 3.3, and 3.09 rounds to 3.1.
- 19) **Choice C is correct.** **(5.OA.A.1)** Do the two grouped multiplications first: $7 \times 8 = 56$ and $4 \times 5 = 20$. Then subtract the results: $56 - 20 = 36$.
- 20) **Choice D is correct.** **(5.NBT.A.2)** $11 \times 100 = 1100$. Append two zeros to 11.
- 21) **Choice D is correct.** **(5.NBT.A.3)** Trailing zeros do not change value. $0.8 = 0.80$. The others are not equivalent.
- 22) **Choice C is correct.** **(5.G.B.3)** Figure C is a rectangle with unequal side lengths. It has four right angles, but it does not have four equal sides, so it is not a square.
- 23) **Choice D is correct.** **(5.NBT.A.2)** A power of 10 tells how many factors of 10 to use. 10^1 is simply 10. This confirms the answer.
- 24) **The correct answer is 2400.** **(5.MD.A.1)** Each kilogram has 1,000 grams. Two kilograms is 2,000 grams, and $2,000 + 400 = 2,400$ grams.
- 25) **The correct answer is 12.** **(5.NF.B.4)** You can multiply first: $\frac{4}{5} \times 15 = \frac{60}{5} = 12$. You can also think of $\frac{1}{5}$ of 15 as 3, so $\frac{4}{5}$ of 15 is 4 groups of 3, or 12.
- 26) **Choice A is correct.** **(5.NF.B.4)** $\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$.
- 27) **Choice B is correct.** **(5.NF.B.4)** $2\frac{1}{2} \times 1\frac{1}{4} = \frac{5}{2} \times \frac{5}{4} = \frac{25}{8} = 3\frac{1}{8}$, which is between 3 and 4.
- 28) **Choice A is correct.** **(5.NBT.A.3)** $2 \times 1 = 2$; $3 \times \frac{1}{10} = 0.3$; $7 \times \frac{1}{100} = 0.07$. So $2 + 0.3 + 0.07 = 2.37$.
- 29) **Choice A is correct.** **(5.G.B.3)** Two equal sides make the triangle isosceles. One right angle makes it a right triangle, so the name is right isosceles triangle.



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!

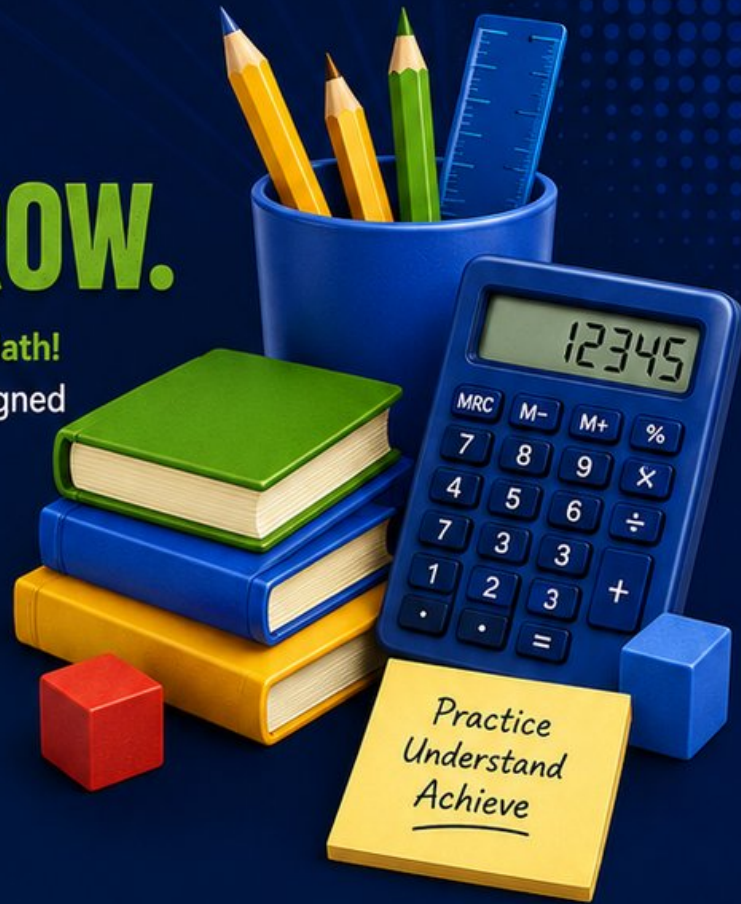
If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

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
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PRACTICE
TESTS

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- ✓ Results-Driven.

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Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



Improve Test Readiness

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Identify strengths and target areas with purposeful practice.



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Better preparation leads to higher scores and bright futures.

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



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