

# 3

# Tennessee

# TCAP

## GRADE 4

# MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**5 FULL-LENGTH**  
PRACTICE TESTS



**STANDARDS-ALIGNED**  
REVIEW



**MIXED PRACTICE**  
QUESTIONS



**ANSWER KEY**  
INCLUDED

$$a^2 + b^2 = c^2$$

$$\frac{3}{4}$$



# 3 Tennessee TCAP Grade 4 Math Practice Tests

*Standards-Aligned Practice for Stronger Math Skills and Test Readiness*



Three 30-question trail tests packed with Grade 4 review, Tennessee TCAP strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

**Jay Daie and Reza Nazari**



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# Welcome, Tennessee Math Explorer!

Three steady rounds on the Volunteer State math route

This book gives you three full Grade 3 practice tests for TCAP. Each round uses music notes, river valleys, and strong step-by-step work to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## Tennessee Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

# How to Use This Book

A ten-session routine for Tennessee TCAP review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Volunteer State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

**Good rhythm:** Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



## What Is Inside?

Three tests, 90 questions, and a full TCAP review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



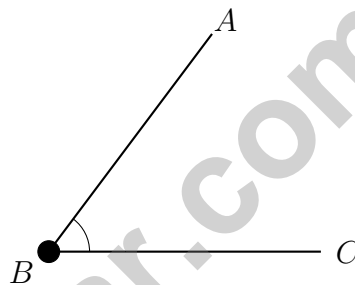
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& answers

# Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	26
★ Practice Test 3	_____	37
Practice Test Answer Keys	_____	48
Practice Test Answers and Explanations	_____	51

- 1) A quadrilateral has four equal sides and four right angles. How many sides does it have?

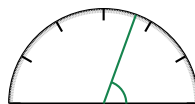
- 2) The angle below is named  $\angle ABC$ . Where is point  $B$ ?



- |   |   |
|---|---|
| <input type="checkbox"/> A. At point $A$  | <input type="checkbox"/> C. At point $C$    |
| <input type="checkbox"/> B. At the vertex | <input type="checkbox"/> D. In the exterior |
- 3) Which fraction is equivalent to  $\frac{2}{3}$ ?

- |   |   |
|---|---|
| <input type="checkbox"/> A. $\frac{3}{4}$ | <input type="checkbox"/> C. $\frac{6}{8}$ |
| <input type="checkbox"/> B. $\frac{3}{2}$ | <input type="checkbox"/> D. $\frac{4}{6}$ |

4)



What is the measure of the angle shown, rounded to the nearest 10 degrees?

- |  |  |
|--|--|
| <input type="checkbox"/> A. 70 degrees | <input type="checkbox"/> C. 80 degrees |
| <input type="checkbox"/> B. 60 degrees | <input type="checkbox"/> D. 90 degrees |



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5) What is  $3 \times \frac{2}{6}$ ?

A.  $\frac{3}{6}$

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

C.  $\frac{2}{9}$

D.  $\frac{6}{18}$

6) A digit 2 in the thousands place has how many times the value of a digit 2 in the tens place?

A. 10

B. 50

C. 100

D. 1,000

7) Look at the place-value table and find the missing decimal.

Tenths	Hundredths	Decimal
5	8	?

What is the decimal?

A. 0.58

B. 0.85

C. 5.8

D. 58.0

8) Which number sentence is true?

A.  $\frac{2}{10} = \frac{20}{100}$

B.  $\frac{2}{10} = \frac{2}{100}$

C.  $\frac{2}{10} = \frac{12}{100}$

D.  $\frac{2}{10} = \frac{100}{2}$

9) Which inequality is correct?

A.  $\frac{6}{12} < \frac{9}{12}$

B.  $\frac{6}{12} > \frac{9}{12}$

C.  $\frac{6}{12} = \frac{9}{12}$

D.  $\frac{9}{12} < \frac{6}{12}$





- 1) A bakery sold 56 donuts on Monday. On Tuesday, the bakery sold 7 times as many donuts. How many donuts did the bakery sell on Tuesday?

- 2) Compare these three decimals on a number line: 0.2, 0.8, 0.5. Which is in the middle?

- A. 0.2                       C. 0.5  
 B. 0.8                       D. They are all equal

- 3) Noah's classroom aquarium holds 36 quarts of water. How many gallons is this?

- A. 4                               C. 12  
 B. 9                               D. 18

- 4) A water jug holds  $2\frac{2}{5}$  gallons. If  $1\frac{1}{5}$  gallons have been spilled, how much water is in the jug now?

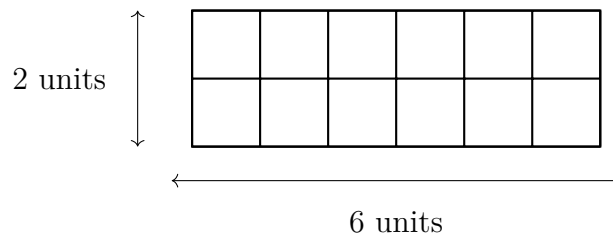
- A.  $1\frac{1}{5}$                                C.  $1\frac{2}{5}$   
 B.  $3\frac{3}{5}$                                D.  $2\frac{1}{5}$

- 5) Diego ran 3,456 meters on Monday and 2,789 meters on Wednesday. How much farther did he run on Monday?

- A. 667 meters                       C. 677 meters  
 B. 767 meters                       D. 777 meters







1)

Each small square is 1 square unit. What is the area of the rectangle?

- A. 8 sq units                       C. 12 sq units  
 B. 10 sq units                     D. 16 sq units

2) Add:  $\frac{4}{10} + \frac{15}{100}$ .

- A.  $\frac{19}{100}$                                C.  $\frac{55}{100}$   
 B.  $\frac{4}{15}$                                   D.  $\frac{59}{100}$

3) What is 12,389 rounded to the nearest thousand?

- A. 10,000                               C. 13,000  
 B. 12,400                               D. 12,000

4) Ivy has  $4\frac{4}{5}$  meters of string. After using some, she has  $1\frac{2}{5}$  meters left. How much string did she use?

- A.  $2\frac{2}{5}$  meters                               C.  $3\frac{3}{5}$  meters  
 B.  $3\frac{2}{5}$  meters                               D.  $3\frac{4}{5}$  meters



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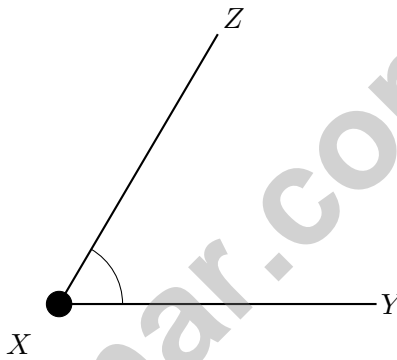
5) Compare the volumes. Which is smaller: 3 liters or 2,500 milliliters?

- A. 3 liters                       C. They are the same size  
 B. 2,500 milliliters            D. Cannot be determined

6) There are 84 pencils in a box. 12 pencils are broken. The remaining good pencils are shared equally among 6 friends. How many pencils does each friend get?

- A. 14                                 C. 16  
 B. 10                                 D. 12 pencils

7)



In angle  $\angle YXZ$ , which letter names the vertex?

- A.  $X$                                  C.  $Z$   
 B.  $Y$                                  D. All three



## Practice Test Answer Keys

**How to use this section with a Grade 4 student:**

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

**A calm correction routine turns every missed item into useful practice.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **The correct answer is 4.** (4.G.A.2) By definition, a quadrilateral is a four-sided figure. The answer is 4.
- 2) **Choice B is correct.** (4.MD.C.5) In  $\triangle ABC$ , point  $B$  is the vertex because it's the middle letter.
- 3) **Choice D is correct.** (4.NF.A.1) To find an equivalent fraction, multiply both the numerator and denominator by the same number. Here, multiply by 2:  $\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}$ . Both pieces are twice as many, but they're the same size!
- 4) **Choice A is correct.** (4.MD.C.6) This angle measures about  $70^\circ$ . When we round to the nearest 10 degrees, it stays at  $70^\circ$  because  $70^\circ$  is right at the mark. The answer is **70** degrees.
- 5) **Choice B is correct.** (4.NF.B.4) Three groups of  $\frac{2}{6}$ :  $3 \times \frac{2}{6} = \frac{6}{6}$ .
- 6) **Choice C is correct.** (4.NBT.A.1) A digit 2 in the thousands place is worth 2,000; a 2 in the tens place is worth 20. The ratio is  $2,000 \div 20 = 100$ . ✓
- 7) **Choice A is correct.** (4.NF.C.5) From the table: 5 tenths = 0.5 and 8 hundredths = 0.08. Add:  $0.5 + 0.08 = 0.58$ .
- 8) **Choice A is correct.** (4.NF.C.5) When we convert  $\frac{2}{10}$  to hundredths, we multiply both numerator and denominator by 10:  $\frac{2 \times 10}{10 \times 10} = \frac{20}{100}$ .
- 9) **Choice A is correct.** (4.NF.A.1) Same denominator, so compare numerators. Since  $6 < 9$ , we have  $\frac{6}{12} < \frac{9}{12}$ .
- 10) **Choice D is correct.** (4.NBT.A.2) From the table: ten-thousands: 2, thousands: 0, hundreds: 9, tens: 3, ones: 5  $\rightarrow$  20,935 ✓
- 11) **Choice C is correct.** (4.MD.A.3) From  $88 = \ell \times 8$ : Divide to get  $\ell = 88 \div 8 = 11$  m.
- 12) **Choice A is correct.** (4.NBT.A.3) We're rounding to the nearest ten thousand. Look at the thousands digit: 3. Since  $3 < 5$ , we round DOWN to **40,000** books. ✓
- 13) **Choice A is correct.** (4.NF.B.3) Mia has limited time for her project. Subtract the time she spends on the first part from the total time:  $4\frac{2}{3} - 2\frac{1}{3} = 2\frac{1}{3}$  hours remain.
- 14) **Choice C is correct.** (4.G.A.3) A scalene triangle has three different side lengths and three different angles. Since nothing matches on either side, no fold line can make the two halves fit together perfectly. The answer is scalene triangle.
- 15) **The correct answer is A, E.** (4.NBT.B.6) Use long division:  $27 \div 4 = 6$  r3, bring down the 8 to get  $38 \div 4 = 9$  r2, bring down the 4 to get  $24 \div 4 = 6$ . The quotient is 696 with no remainder. Statement A is correct (quotient is 696) and statement E is correct (no remaining pieces). Statements B, C, and D are incorrect.
- 16) **Choice B is correct.** (4.NF.B.4) Picture B shows two bars: the top bar has  $\frac{1}{3}$  shaded, and the bottom bar also has  $\frac{1}{3}$  shaded. Together they show  $1 + 1 = 2$  copies of  $\frac{1}{3}$ .
- 17) **Choice D is correct.** (4.OA.A.2) "2 times as many" means multiply. The team scored  $2 \times 9 = 18$  points in the second quarter.
- 18) **Choice D is correct.** (4.OA.B.4) A factor divides evenly with no remainder. Check each choice:  $16 \div 3 = 5$  r 1 (no);  $16 \div 4 = 4$  (yes ✓);  $16 \div 5 = 3$  r 1 (no);  $16 \div 6 = 2$  r 4 (no). The full factor list is 1, 2, 4, 8, 16.
- 19) **The correct answer is  $\frac{18}{6}$ .** (4.NF.B.4) Lining up 9 tiles, each  $\frac{2}{6}$  meter long, gives us  $9 \times \frac{2}{6} = \frac{18}{6} = 3$  meters.
- 20) **Choice B is correct.** (4.NF.B.3) The common mistake adds denominators too (getting  $\frac{2}{6}$ ). But keep it simple: same denominator stays the same!  $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ , not  $\frac{2}{6}$ .
- 21) **Choice C is correct.** (4.MD.A.1) Since 1 meter = 1,000 millimeters, multiply:  $3 \times 1,000 = 3,000$  mm. The answer is **3,000** mm.
- 22) **Choice D is correct.** (4.OA.B.4) The pattern repeats every 2 shapes: circle, square, circle, square, ... Position 10 is even, so it's a square. ✓
- 23) **Choice D is correct.** (4.NF.B.3) Add the wholes:  $1 + 0 + 1 = 2$ . Add the fractions:  $\frac{5}{8} + \frac{3}{8} = \frac{8}{8} = 1$ . Combine:  $2 + 1 = 3$ .
- 24) **Choice A is correct.** (4.NBT.A.3) Subtract by place value: no regrouping needed. The answer is **44,444**.
- 25) **Choice D is correct.** (4.OA.A.3) Two steps! Step 1: find the total students.  $4 \times 28 = 112$  students. Step 2: equal groups of 7 means divide:  $112 \div 7 = 16$  groups.
- 26) **Choice C is correct.** (4.MD.B.4) Count the measurements of 1 inch (which is  $\frac{2}{2}$  inch). They appear **3** times in our data.



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& answers

## Hi, Math Pilot!

◇ 3 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

### Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

**Pilot tip:** on test day, take off one problem at a time. Trust your training. You earned your wings!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Pilot

# PRACTICE TODAY. SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

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- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

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Build a solid foundation through targeted practice and review.



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Develop logical thinking and effective solution strategies.



### Test Confidence

Become familiar with test-style questions and formats.



### Prepare for Success

Build the confidence needed to do your best on test day.

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- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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