

# 5 Tennessee TCAP

Standards-Aligned Review with  
Mixed Practice and Answer Key

A+

# 5 Tennessee TCAP Grade 4 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Five complete 30-question Grade 4 practice rounds for TCAP, built around music notes, river valleys, and strong step-by-step work, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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# Welcome, Tennessee Math Explorer!

Five steady rounds on the Volunteer State math route

This book gives you five full Grade 4 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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.



Scan me!  
For more practice  
& answers

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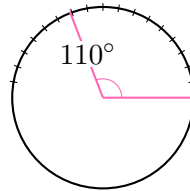
1) A movie theater sold 4,032 tickets over 6 days. If the same number of tickets was sold each day, how many tickets were sold per day?

A. 672

C. 662

B. 682

D. 652



2)

An angle has a measure of 110 degrees as shown. How many one-degree angles make it?

A. 55 one-degree angles

C. 220 one-degree angles

B. 110 one-degree angles

D. 11 one-degree angles

3) How many  $\frac{1}{3}$  are there in the expression  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$ ?

A. 3

C. 9

B. 6

D. 12

4) A sequence of multiples is:  $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, ?$ . Which is the next multiple?

A.  $\frac{3}{9}$

C.  $\frac{3}{16}$

B.  $\frac{4}{8}$

D.  $\frac{4}{16}$



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5) What is the mistake in this subtraction?

$$\begin{array}{r} 5,003 \\ -1,245 \\ \hline 4,758 \end{array}$$

- A. The student did not regroup correctly.
- B. The student added instead of subtracted.
- C. The answer is correct; there is no mistake.
- D. The student forgot to carry.

6) Which fraction bar shows  $\frac{4}{6} + \frac{2}{6}$ ?



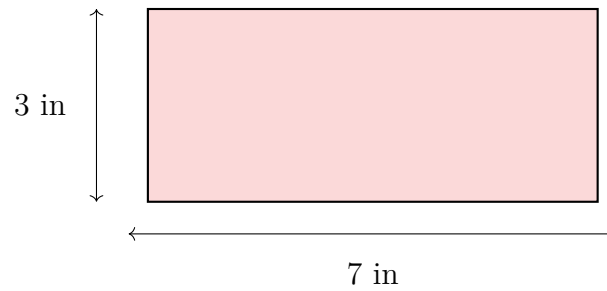
$\frac{4}{6}$  (green) +  $\frac{2}{6}$  (orange)

- A.  $\frac{4}{12}$
- B.  $\frac{6}{6}$
- C.  $\frac{6}{12}$
- D.  $\frac{6}{8}$
- 7) In the number 5,391, what digit is in the tens place?

8) Ming has 4 boxes of crayons. Each box has 18 crayons. How many crayons does Ming have?

- A. 44
- B. 82
- C. 64
- D. 72





9)

What is the perimeter of the rectangle shown?

- A. 10 in                       C. 21 in  
 B. 20 in                       D. 42 in

10) Which expanded form equals 0.34?

- A.  $0.3 + 0.4$                        C.  $3 + 0.4$   
 B.  $0.3 + 0.04$                        D.  $3 + 4$

11) Which statement matches the equation  $12 = 3 \times 4$ ?

- A. 12 is 4 more than 3                       C. 12 plus 3 equals 4  
 B. 12 is 3 less than 4                       D. 12 is 3 times as many as 4

12) Which comparison is true?

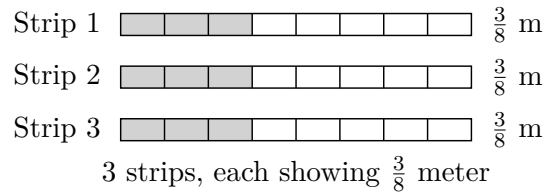
- A.  $0.6 < 0.59$                        C.  $0.6 > 0.59$   
 B.  $0.6 = 0.59$                        D.  $0.6 < 0.5$

13) Which problem has an answer of  $4\frac{1}{2}$ ?

- A.  $2\frac{1}{2} + 2$                        C.  $3\frac{1}{2} + 1\frac{1}{2}$   
 B.  $5\frac{1}{2} - 2\frac{1}{2}$                        D.  $6 - 2\frac{1}{2}$



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1)

Each ribbon strip is  $\frac{3}{8}$  meter. What is the total length of 3 strips?

- |   |  |
|---|--|
| <input type="checkbox"/> A. $\frac{9}{8}$ meters (or $1\frac{1}{8}$ meters) | <input type="checkbox"/> C. $\frac{9}{24}$ meter |
| <input type="checkbox"/> B. $\frac{3}{24}$ meter                            | <input type="checkbox"/> D. $\frac{3}{3}$ meter  |

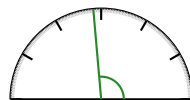
2) In the number 5,003, what is the value of the digit in the hundreds place?

- |                                |                                       |
|--------------------------------|---------------------------------------|
| <input type="checkbox"/> A. 3  | <input type="checkbox"/> C. 3 hundred |
| <input type="checkbox"/> B. 50 | <input type="checkbox"/> D. 0         |

3) Greyson collects 8 baseball cards. His friend collects 4 times as many. How many cards does his friend collect?

- |                                |                                |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> A. 12 | <input type="checkbox"/> C. 4  |
| <input type="checkbox"/> B. 2  | <input type="checkbox"/> D. 32 |

4)



Is this angle acute, right, obtuse, or straight?

- |                                   |                                      |
|-----------------------------------|--------------------------------------|
| <input type="checkbox"/> A. Acute | <input type="checkbox"/> C. Obtuse   |
| <input type="checkbox"/> B. Right | <input type="checkbox"/> D. Straight |





1) A clock hand moves from 12 o'clock to a position where it has rotated  $45^\circ$ . If it then rotates another  $35^\circ$ , what is the total angle of rotation?

- A.  $10^\circ$                        C.  $80^\circ$   
 B.  $70^\circ$                        D.  $90^\circ$

2) Complete the sequence: 2, 5, 10, 17, \_\_\_

- A. 24                               C. 28  
 B. 30                               D. 26

3) A line plot shows cat weights in eighths of a pound:  $\frac{4}{8}$ ,  $\frac{6}{8}$ ,  $\frac{4}{8}$ ,  $\frac{4}{8}$ ,  $\frac{5}{8}$ . Which weight has the most X marks?

- A.  $\frac{4}{8}$  lb                               C.  $\frac{6}{8}$  lb  
 B.  $\frac{5}{8}$  lb                               D.  $\frac{7}{8}$  lb

4) A recipe for cookies uses  $\frac{2}{5}$  cup of chocolate chips. If you triple the recipe, how many cups of chocolate chips do you need?

5) In the number 2,222, which 2 has the greatest value?

- A. The 2 in the ones place                       C. The 2 in the hundreds place  
 B. The 2 in the tens place                       D. The 2 in the thousands place



6) Mia had a ribbon that was  $\frac{7}{10}$  meter long. She cut off  $\frac{3}{10}$  meter for a craft project. How much ribbon was left?

A.  $\frac{4}{10}$   
 B.  $\frac{10}{10}$

C.  $\frac{3}{10}$   
 D.  $\frac{10}{20}$

7) A running path is 4 kilometers long. How many meters is this?

A. 40  
 B. 400

C. 4,000  
 D. 40,000

8) Mia shared a string into 12 equal pieces. She used 9 pieces for a craft. Show this fraction as a sum of unit fractions.

A. Nine copies of  $\frac{9}{9}$   
 B. Nine unit fractions of  $\frac{1}{9}$

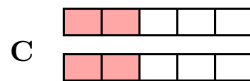
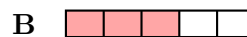
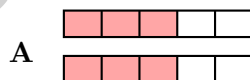
C. Twelve unit fractions of  $\frac{1}{12}$   
 D. Nine unit fractions of  $\frac{1}{12}$

9) Mia had 25,000 dollars. She spent 12,345 dollars. How much money does she have left?

A. 12,655 dollars  
 B. 12,755 dollars

C. 13,655 dollars  
 D. 12,565 dollars

10) Which bar model represents  $2 \times \frac{3}{5}$ ?



A. Top-left picture  
 B. Top-right picture

C. Bottom-left picture  
 D. Bottom-right picture



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## 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

- Choice A is correct.** (4.NBT.B.6) Divide:  $40 \div 6 = 6$  r4, bring down the 3 to get  $43 \div 6 = 7$  r1, bring down the 2 to get  $12 \div 6 = 2$ . Each day they sold **672** tickets.
- Choice B is correct.** (4.MD.C.5) The diagram shows a  $110^\circ$  angle, meaning it contains **110** one-degree angles.
- Choice B is correct.** (4.NF.B.3) Look at the expression:  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$ . Count them: **6** copies of  $\frac{1}{3}$ .
- Choice B is correct.** (4.NF.B.4) The pattern counts by eighths:  $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, \dots$ . So next is  $4 \times \frac{1}{8} = \frac{4}{8}$ .
- Choice A is correct.** (4.NBT.A.3) The correct answer is  $5,003 - 1,245 = 3,758$ , not 4,758. The student did not regroup correctly across the zeros.
- Choice B is correct.** (4.NF.B.3) The fraction bar is divided into 6 equal parts. The coral shows  $\frac{4}{6}$  and the orange shows  $\frac{2}{6}$ . Add them:  $4 + 2 = 6$  parts, or **1** whole.
- The correct answer is 9.** (4.NBT.A.1) Count from the right: ones, tens, hundreds, thousands. The tens place is the second digit from the right, which is **9**. ✓
- Choice D is correct.** (4.NBT.B.5) Break 18 into tens and ones:  $4 \times (10 + 8) = 40 + 32 = \mathbf{72}$  crayons.
- Choice B is correct.** (4.MD.A.3) From the diagram: length is 7 in and width is 3 in. Perimeter =  $2(7) + 2(3) = 14 + 6 = 20$  in.
- Choice B is correct.** (4.NF.C.5) Break 0.34 into parts: 3 tenths (0.3) plus 4 hundredths (0.04) equals  $0.3 + 0.04 = 0.34$ .
- Choice D is correct.** (4.OA.A.1) Read  $12 = 3 \times 4$  in words: "12 equals 3 groups of 4." That's the same as saying "12 is 3 times as many as 4." The other choices use *more*, *plus*, or *less*—those describe adding or subtracting, not multiplying.
- Choice C is correct.** (4.NF.C.5) Compare place by place: Write 0.6 as 0.60. Now both have the same number of decimal places. Since  $60 > 59$  hundredths, we have  $0.6 > 0.59$ .
- Choice A is correct.** (4.NF.B.3) Check choice A:  $2\frac{1}{2} + 2 = 4\frac{1}{2}$ . Correct! Add wholes:  $2 + 2 = 4$ , and keep the fraction:  $\frac{1}{2}$ . The others give different answers: B equals 3, C equals 5, D equals  $3\frac{1}{2}$ .
- The correct answer is B, C.** (4.MD.C.5) An obtuse angle opens wider than a right angle (90 degrees) but does not reach a straight line (180 degrees). So it is both larger than right and smaller than straight.
- Choice B is correct.** (4.MD.C.7) The pie chart shows three slices. Add their angle measures:  $65^\circ + 55^\circ + 60^\circ = \mathbf{180^\circ}$ .
- The correct answer is 27.** (4.MD.A.1) Since 1 yard = 3 feet, multiply:  $9 \times 3 = 27$  feet.
- Choice B is correct.** (4.NF.B.4) Doubling a recipe means we multiply by 2. We get  $2 \times \frac{3}{5} = \frac{6}{5}$  cups of milk.
- Choice D is correct.** (4.OA.A.2) "2 times as many" means multiply by 2:  $2 \times 16 = 32$  toy cars.
- Choice C is correct.** (4.NF.B.4) We take 5 copies of  $\frac{2}{10}$ . Multiply:  $5 \times \frac{2}{10} = \frac{5 \times 2}{10} = \frac{10}{10} = 1$ . The answer is **1**.
- Choice D is correct.** (4.OA.A.3) Two steps! Step 1: add the new cars:  $45 + 15 = 60$  cars. Step 2: take away the ones sold:  $60 - 20 = 40$  cars left.
- Choice A is correct.** (4.MD.A.2) There are 240 ounces of rice to divide equally into 4 bins. Divide:  $240 \div 4 = 60$  ounces. Each bin gets **60** ounces.
- Choice C is correct.** (4.G.A.3) The block letter T has one vertical line of symmetry down the center. The left and right halves match, but the top and bottom halves do not. The answer is choice **C**.
- Choice A is correct.** (4.NF.B.3) Three friends share one sub. Step 1: Add Friends A and B:  $\frac{4}{10} + \frac{3}{10} = \frac{7}{10}$ . Step 2: Friend C eats what's left:  $\frac{10}{10} - \frac{7}{10} = \frac{3}{10}$ .
- Choice C is correct.** (4.NF.A.1) Same denominator, so compare numerators:  $4 < 8$  means  $\frac{4}{10} < \frac{8}{10}$ .
- Choice C is correct.** (4.MD.B.4) Count how many times  $\frac{2}{4}$  inch appears in the data: it shows up **3** times.
- The correct answer is 12, 15.** (4.OA.B.4) Multiply by 3: Input 4 gives  $4 \times 3 = 12$ ; Input 5 gives  $5 \times 3 = 15$ . The outputs are **12, 15**.
- Choice C is correct.** (4.NF.B.4) Count the shaded parts: 4 parts are shaded. Count the equal parts: 5 total parts. So the shaded fraction is  $4 \times \frac{1}{5} = \frac{4}{5}$ .
- Choice D is correct.** (4.MD.C.5) A complete rotation around a circle measures **360°** because that's the universal standard for a full turn.



## Hi, Strong Climber!

◇ You climbed all 5 tests. One step at a time. That takes patience and grit. The view from the top is amazing because you earned it! ◇

★ **Mountain guides say:** steady steps win the climb. You climbed steady. You stayed strong. ★

### Climber's Skills

- **Strong Steps:** You move forward, problem by problem.
- **Steady Pace:** You don't rush. You don't stop.
- **Map Skills:** You read questions carefully.
- **Top of the Mountain:** You can finish a long test.

**Guide's tip:** on test day, take small breaths between problems. One foot, then the next. You'll reach the top!

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 Trail Guide

# 5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

With 5 full-length practice tests, a variety of question types, and detailed answer explanations, students get the practice they need to understand math, strengthen critical thinking, and perform their best on test day and beyond.

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

## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

★ CONFIDENCE TODAY.  
SUCCESS TOMORROW!

## WHAT STUDENTS WILL GAIN



### Stronger Math Skills

Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Test Confidence

Become familiar with test-style questions and formats.



### Track Progress

Measure growth across multiple practice tests.



### Master Key Concepts

Reinforce important skills aligned with grade-level standards.



### Prepare for Success

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

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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## MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



5 Full-Length Practice Tests



Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included

A+