

# 4

# Tennessee

# TCAP

## GRADE 4

# MATH

## PRACTICE TESTS



5 FULL-LENGTH  
PRACTICE TESTS



Standards-Aligned Review with  
Mixed Practice and Answer Key



STANDARDS-ALIGNED  
REVIEW



MIXED PRACTICE  
QUESTIONS



ANSWER KEY  
INCLUDED



$$4 \times 7 = 28$$

$$36 \div 9 = 4$$



# 4 Tennessee TCAP Grade 4 Math Practice Tests

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



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Tennessee Math Explorer!

Four steady rounds on the Volunteer State math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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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For more practice  
& answers

# Table of Contents

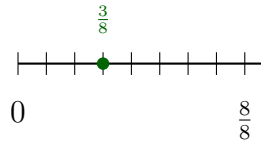
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- 1) A rectangular vegetable garden is 36 feet long and 18 feet wide. What is the area of the garden?
- A. 608 sq. ft                       C. 728 sq. ft  
 B. 792 sq. ft                       D. 648 sq. ft
- 2) A line plot shows data with halves. At  $\frac{1}{2}$  there are 2 X marks, at 1 there are 4 X marks, and at  $\frac{3}{2}$  there is 1 X mark. How many X marks in total?
- A. 5                                       C. 7  
 B. 6                                       D. 8
- 3) A recipe calls for  $\frac{3}{4}$  cup of sugar. If Dylan is making 5 batches, how much sugar does he need?
- A.  $\frac{3}{20}$  cup                               C.  $\frac{15}{20}$  cup  
 B.  $\frac{8}{4}$  cups                               D.  $\frac{15}{4}$  cups or  $3\frac{3}{4}$  cups
- 4) A rectangle has a width of 8 meters. The perimeter is 36 meters. What is the length?
- A. 12 m                                       C. 18 m  
 B. 14 m                                       D. 10 m
- 5) The trail to the tallest building in the city is 4 kilometers long. How many meters is this?
- A. 400                                       C. 40,000  
 B. 4,000                                       D. 400,000



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- 6) Noah skipped by  $\frac{1}{8}$  along a number line. He stopped at  $\frac{3}{8}$ . How many skips did he make?



- A. 1 skip                       C. 3 skips  
 B. 2 skips                       D. 4 skips
- 7) Grace has some marbles. Her brother has 3 times as many marbles, and he has 24 marbles. How many marbles does Grace have?
- A. 6                                       C. 21  
 B. 27                                       D. 8
- 8) Maya measured her jump rope. It was 0.65 meters. Sam's rope was 0.56 meters. Whose rope was longer?
- A. Maya's rope (0.65 m)               C. Both ropes are the same length  
 B. Sam's rope (0.56 m)               D. Cannot tell from the information
- 9) What is the sum:  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$ ?
- A.  $\frac{5}{8}$                                        C.  $\frac{1}{8}$   
 B.  $\frac{5}{40}$                                        D.  $\frac{1}{5}$
- 10) If you move the digit 4 from the tens place to the thousands place, how many times greater does its value become?
- A. 10 times                               C. 1,000 times  
 B. 2 times                                       D. 100 times



11) What angle does the minute hand sweep in 30 minutes?

A.  $90^\circ$

C.  $180^\circ$

B.  $120^\circ$

D.  $270^\circ$

12) Jackson hikes 4 miles. His dad hikes 9 times as many miles. How many miles does his dad hike?

A. 4

C. 9

B. 5

D. 36

13) Find  $2\frac{3}{4} - 1\frac{1}{4}$ .

14) Which is equal to 0.80?

A.  $\frac{8}{10}$

C. 0.08

B.  $\frac{8}{100}$

D. 0.008

15) How many rays form an angle?



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- 1) Which shows the completed standard algorithm, including the final product, for  $37 \times 26$ ?

<p><b>A.</b></p> $\begin{array}{r} 37 \\ \times 26 \\ \hline 222 \\ +740 \\ \hline \end{array}$	<p><b>B.</b></p> $\begin{array}{r} 37 \\ \times 26 \\ \hline 962 \\ +740 \\ \hline \end{array}$
<p><b>C.</b></p> $\begin{array}{r} 37 \\ \times 26 \\ \hline 222 \\ + 74 \\ \hline \end{array}$	<p><b>D.</b></p> $\begin{array}{r} 37 \\ \times 26 \\ \hline 222 \\ +740 \\ \hline 962 \end{array}$

- 2) A party favor bag holds  $\frac{1}{6}$  pound of candy. If you prepare 8 bags, how much candy is used in total?

- |   |  |
|---|--|
| <input type="checkbox"/> A. $\frac{1}{48}$ pound                            | <input type="checkbox"/> C. $\frac{8}{48}$ pound |
| <input type="checkbox"/> B. $\frac{8}{6}$ pounds (or $1\frac{1}{3}$ pounds) | <input type="checkbox"/> D. $\frac{6}{8}$ pound  |

- 3) Is 36 a multiple of 9?

- |  |   |
|--|---|
| <input type="checkbox"/> A. Only if divisible by 4 | <input type="checkbox"/> C. Cannot tell |
| <input type="checkbox"/> B. No                     | <input type="checkbox"/> D. Yes         |

- 4) Which number sentence is false?

- |  |  |
|--|--|
| <input type="checkbox"/> A. $\frac{1}{3} = \frac{4}{12}$ | <input type="checkbox"/> C. $\frac{3}{5} = \frac{9}{15}$ |
| <input type="checkbox"/> B. $\frac{2}{6} = \frac{1}{3}$  | <input type="checkbox"/> D. $\frac{2}{5} = \frac{4}{12}$ |



5) A farmer has 7 chickens. She has 5 times as many ducks. How many more ducks than chickens?

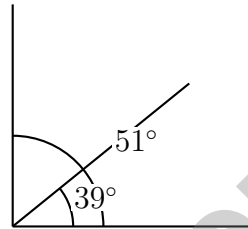
A. 12

C. 5

B. 35

D. 28

6) Two pieces of ribbon are arranged at a vertex. The first ribbon makes an angle of  $39^\circ$  and the second makes an angle of  $51^\circ$ . Together, what angle do the ribbons form?



A.  $90^\circ$

C.  $39^\circ$

B.  $51^\circ$

D.  $130^\circ$



7)

$\frac{4}{6}$  sugar

$\frac{2}{6}$  flour

A cake recipe uses  $\frac{4}{6}$  cup of sugar and  $\frac{2}{6}$  cup of flour. What is the total amount of sugar and flour combined?

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

C.  $\frac{2}{6}$

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

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



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1) Diego has  $\frac{5}{10}$  of a granola bar. How many tenths does he have?

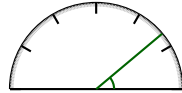
A. 5 tenths

C. 2 tenths

B. 10 tenths

D. 15 tenths

2)



What is the measure of the angle shown?

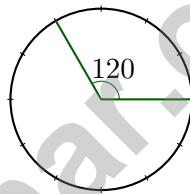
A. 35 degrees

C. 45 degrees

B. 40 degrees

D. 50 degrees

3)



An angle measures 120 degrees. How many one-degree angles make this angle?

A. 60 one-degree angles

C. 240 one-degree angles

B. 120 one-degree angles

D. 12 one-degree angles

4) Round 4,607 to the nearest ten.

A. 4,600

C. 4,607

B. 4,700

D. 4,610



5) Diego walked  $2\frac{3}{10}$  miles on Monday and  $1\frac{4}{10}$  miles on Tuesday. How many miles did he walk in total?

A.  $3\frac{5}{10}$  miles

B.  $3\frac{6}{10}$  miles

C.  $3\frac{7}{10}$  miles

D.  $4\frac{1}{10}$  miles

6) What is  $38 \times 25$ ?

A. 800

B. 1000

C. 850

D. 950

7) A bakery bakes 3 batches of rolls. Each batch makes 28 rolls. The rolls go into boxes of 8. How many complete boxes can they fill?

8) Ava eats 3 of 8 equal pizza slices. What fraction of the pizza did she eat?

9) A child spins a bottle. It rotates  $\frac{1}{9}$  of a full turn. How many degrees is this?

A.  $30^\circ$

B.  $35^\circ$

C.  $40^\circ$

D.  $45^\circ$



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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 D is correct.** (4.NBT.B.5) Break 18:  $36 \times (10 + 8) = 360 + 288 = 648$  square feet.
- Choice C is correct.** (4.MD.B.4) Add up all the X marks at each position:  $2 + 4 + 1 = 7$  X marks in total.
- Choice D is correct.** (4.NF.B.4) Dylan is making 5 batches, each with  $\frac{3}{4}$  cup of sugar. Multiply:  $5 \times \frac{3}{4} = \frac{5 \times 3}{4} = \frac{15}{4} = 3\frac{3}{4}$  cups. The answer is  $3\frac{3}{4}$  cups.
- Choice D is correct.** (4.MD.A.3) Use  $P = 2\ell + 2w = 36$  with  $w = 8$ :  $2\ell + 2(8) = 36$ . Solve:  $2\ell + 16 = 36$ , so  $2\ell = 20$ , thus  $\ell = 10$  m.
- Choice B is correct.** (4.MD.A.1) 1 kilometer = 1,000 meters. So 4 km =  $4 \times 1,000 = 4,000$  m.
- Choice C is correct.** (4.NF.B.4) Noah skips in eighths:  $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}$ . After 3 skips, he's at  $\frac{3}{8}$ .
- Choice D is correct.** (4.OA.A.2) Working backwards. The brother has 24 marbles, which is 3 times Grace's amount, so  $3 \times ? = 24$ . Divide to find Grace's amount:  $24 \div 3 = 8$  marbles.
- Choice A is correct.** (4.NF.C.5) Look at the tenths place: 0.65 has 6 tenths while 0.56 has 5 tenths. Since  $6 > 5$ ,  $0.65 > 0.56$ , and Maya's rope is longer.
- Choice A is correct.** (4.NF.B.3) We have 5 copies of the unit fraction  $\frac{1}{8}$ . When we add them, the denominator stays 8, and we count the unit fractions: 5 of them. So  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{5}{8}$ .
- Choice D is correct.** (4.NBT.A.1) Moving the digit 4 from tens (40) to thousands (4,000) increases its value by the ratio  $4,000 \div 40 = 100$  times. ✓
- Choice C is correct.** (4.MD.C.5) In 30 minutes, the minute hand moves from 12 to 6 (a half turn), sweeping  $180^\circ$ .
- Choice D is correct.** (4.OA.A.1) "9 times as many" means multiply by 9:  $4 \times 9 = 36$  miles.
- The correct answer is  $1\frac{1}{2}$ .** (4.NF.B.3) Subtract the mixed numbers:  $2\frac{3}{4} - 1\frac{1}{4} = 1\frac{2}{4}$ , which simplifies to  $1\frac{1}{2}$ .
- Choice A is correct.** (4.NF.C.5) The trailing zero doesn't matter: 0.80 and 0.8 are the same, both equal to  $\frac{8}{10}$ .
- The correct answer is 2.** (4.MD.C.5) An angle is formed by 2 rays that share a vertex.
- The correct answer is A, B.** (4.NF.A.1) Options A and B are equivalent:  $\frac{1}{3} = \frac{1 \times 2}{3 \times 2} = \frac{2}{6}$  ✓ The others don't match:  $\frac{1}{4}$  (different),  $\frac{2}{7}$  (different), and  $\frac{3}{6} = \frac{1}{2}$  (half, not a third).
- Choice B is correct.** (4.NF.B.4) The fraction  $\frac{7}{8}$  is equal to 7 copies of the unit fraction  $\frac{1}{8}$ , so we have  $7 \times \frac{1}{8} = \frac{7}{8}$ . There are 7 unit fractions.
- Choice C is correct.** (4.MD.C.6) At  $110^\circ$ , this angle opens wider than a right angle. Since it's between  $90^\circ$  and  $180^\circ$ , it's definitely obtuse. The answer is obtuse.
- Choice C is correct.** (4.NF.A.1) First, simplify:  $\frac{2}{6} = \frac{1}{3}$  (divide both by 2). So  $\frac{2}{6}$  lands exactly at  $\frac{1}{3}$  on the number line.
- Choice A is correct.** (4.NF.B.3)  $\frac{7}{8}$  means "seven eighths," so we need seven  $\frac{1}{8}$  pieces:  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} \checkmark$ .
- The correct answer is 36.** (4.MD.C.7) Split the straight angle equally into five parts:  $180^\circ \div 5 = 36^\circ$ .
- Choice A is correct.** (4.NBT.A.3) Subtract from 50,000 using regrouping. The answer is **26,544**.
- Choice B is correct.** (4.G.A.2) A rectangle has two pairs of parallel sides and all four right angles. Although opposite sides are equal in length, not all four sides must be equal. The answer is **B**.
- Choice C is correct.** (4.OA.B.4) For both numbers to be factors, both must divide 36 evenly. Check:  $36 \div 6 = 6 \checkmark$  and  $36 \div 9 = 4 \checkmark$ . Choice A: 8 doesn't divide 36 ( $36 \div 8 = 4 \text{ r } 4$ ); choice B: 7 doesn't divide 36; choice D: 8 doesn't divide 36.
- Choice A is correct.** (4.MD.C.5) The degree marks show the angle goes from 0 to 80, so it measures  $80^\circ$ .
- Choice C is correct.** (4.NBT.B.6) Divide:  $54 \div 6 = 9$ , and  $0 \div 6 = 0$  gives us 90. Each friend receives **90** cookies.
- Choice D is correct.** (4.OA.B.4) Squares form a grid: Figure 1 =  $1 \times 1 = 1$ , Figure 2 =  $2 \times 2 = 4$ , Figure 3 =  $3 \times 3 = 9$ . Figure 4 =  $4 \times 4 = 16$  squares.
- Choice B is correct.** (4.NF.B.4) Nine beads, each weighing  $\frac{1}{10}$  gram, weigh  $9 \times \frac{1}{10} = \frac{9}{10}$  grams total.
- Choice C is correct.** (4.MD.A.2) The game starts at 6:00 p.m. and ends at 8:30 p.m. From 6:00 to 8:00 is 2 hours, plus 30 more minutes. Total: 2 hours 30 minutes. The game is **2 hours 30 minutes** long.



From Your Math Family

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Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 4 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

**What Your Math Family Sees**

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

**Family tip:** on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

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 Family

# PRACTICE TODAY, SUCCEED TOMORROW!

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

With 4 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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- ✓ Homework & Review
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- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

★ **CONFIDENCE TODAY.  
SUCCESS TOMORROW!**

## WHAT STUDENTS WILL GAIN



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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.



### Prepare for Success

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

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- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
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