

8 Tennessee TCAP GRADE 4



PRACTICE TESTS



Standards-Aligned Review with
Mixed Practice and Answer Key

**COMPREHENSIVE
TEST PREP**

Includes Solutions

8 Tennessee TCAP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight 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!

Eight steady rounds on the Volunteer State math route

This book gives you eight 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?

Eight tests, 240 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 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 6–8	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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Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	26
★ Practice Test 3	_____	37
★ Practice Test 4	_____	48
★ Practice Test 5	_____	59
★ Practice Test 6	_____	70
★ Practice Test 7	_____	81
★ Practice Test 8	_____	92
Practice Test Answer Keys	_____	103
Practice Test Answers and Explanations	_____	104

1) Which equation shows $\frac{11}{12}$ as a sum of two fractions?

A. $\frac{6}{12} + \frac{5}{12}$

C. $\frac{8}{12} + \frac{2}{12}$

B. $\frac{7}{12} + \frac{3}{12}$

D. $\frac{9}{12} + \frac{1}{12}$

2) A van can carry 8 students. If there are 360 students going on a field trip, how many vans are needed?

360 students

÷ 8 students per van

Van 1 Van 2 ...

Total: ? vans

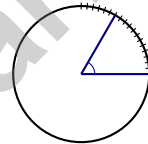
A. 45

C. 48

B. 42

D. 40

3)



This diagram is marked from 0° to 60° . How many one-degree angles does the angle contain?

A. 60 one-degree angles

C. 59 one-degree angles

B. 61 one-degree angles

D. 30 one-degree angles

4) Order these fractions from least to greatest: $\frac{1}{4}$, $\frac{1}{2}$, $\frac{1}{3}$.

A. $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$

C. $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{2}$

B. $\frac{1}{4}$, $\frac{1}{2}$, $\frac{1}{3}$

D. $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{2}$



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5) Which number sentence correctly shows decomposing a fraction into unit fractions?

A. $\frac{6}{8} = \frac{1}{8} + \frac{5}{8}$

C. $\frac{6}{8} = \frac{2}{8} + \frac{2}{8} + \frac{2}{8}$

B. $\frac{6}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

D. $\frac{6}{8} = \frac{6}{16}$

6) During lunch, the cafeteria used 6 gallons of milk on Monday and 8 gallons on Tuesday. How many gallons did they use in total?

 A. 2 gallons C. 14 gallons B. 8 gallons D. 48 gallons

7) Ava has 8,234 stickers. She gives 2,456 stickers to her friend. How many stickers does Ava have left?

 A. 5,778 C. 6,778 B. 5,678 D. 6,678

8) How many rays form the sides of an angle?

 A. 1 ray C. 3 rays B. 2 rays D. 4 rays

9) A rectangle has an area of 72 square inches. The length is 9 inches. What is the width?



1) A pet store has 14 hamsters. Another pet store has 3 times as many hamsters. How many hamsters does the other store have?

- A. 17 C. 56
 B. 30 D. 42

2) A sports team has 96 uniforms. They divide them equally among 6 teams. Then each team donates 5 uniforms to a new club. How many uniforms does each team have left?

- A. 10 C. 21
 B. 16 D. 11

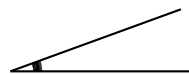
3) Use this place-value chart:

Hundred-Thousands	Ten-Thousands	Thousands	Hundreds	Tens	Ones
4	1	8	5	2	3

What is the standard numeral?

- A. 418,253 C. 418,352
 B. 481,523 D. 418,523

4)



The tick marks are every 2° , and the angle reaches 20° . What is the angle measure?

- A. 10° C. 40°
 B. 20° D. 2°



5) Two jars of jam are the same size. One jar is $\frac{3}{4}$ full, and another is $\frac{4}{5}$ full. Which jar is more full?

- A. The first jar ($\frac{3}{4}$)
 C. Both are equally full
 B. The second jar ($\frac{4}{5}$)
 D. Cannot determine

6) Find $3 \times \frac{5}{6}$ as a mixed number.

7) Using the number line, which number just below 3,500 rounds to 3,500 when rounded to the nearest hundred?



- A. 3,449
 C. 3,500
 B. 3,551
 D. 3,450

8) A pitcher holds 64 fluid ounces. How many pints is this?

- A. 2
 C. 8
 B. 4
 D. 16

9) A table shows multiples of $\frac{1}{3}$. What is the missing number?

Multiplier	1	2	3	4	5
Multiple of $\frac{1}{3}$	$\frac{1}{3}$	$\frac{2}{3}$?	$\frac{4}{3}$	$\frac{5}{3}$

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



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1) Which subtraction is correct?

A. $7,123 - 2,456 = 4,667$

C. $7,123 - 2,456 = 5,567$

B. $7,123 - 2,456 = 5,667$

D. $7,123 - 2,456 = 5,777$

2) $\overbrace{\hspace{10em}}^7$
4 times $\overbrace{\hspace{20em}}^?$

Kai bought 7 notebooks for school. His friend bought 4 times as many notebooks. How many notebooks did his friend buy?

A. 11

C. 35

B. 22

D. 28

3) Look at the input-output table. What is the rule?

Input	2	3	4	5
Output	6	9	12	15

A. Add 3 then multiply by 2

C. Multiply by 2 then add 2

B. Add 4

D. Multiply by 3

4) Jasmine has a ribbon that is $3\frac{2}{4}$ feet long. She cuts off $1\frac{1}{4}$ feet. What is the length of the remaining ribbon?

A. $2\frac{1}{4}$

C. $4\frac{3}{4}$

B. $1\frac{1}{4}$

D. $2\frac{3}{4}$



- 5) On a line plot with fourths, the data are: $\frac{1}{4}$ in, $\frac{2}{4}$ in, $\frac{2}{4}$ in, $\frac{2}{4}$ in, $\frac{3}{4}$ in, $\frac{3}{4}$ in. What measurement has the most X marks?

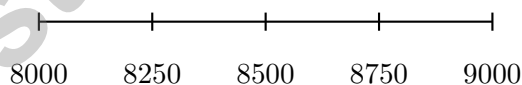
- 6) A napkin costs $\frac{1}{2}$ dollar. If you buy 6 napkins, how much do you spend?

- A. $\frac{1}{12}$ dollar C. $\frac{6}{12}$ dollar
 B. $\frac{6}{2}$ dollars (or 3 dollars) D. $\frac{1}{3}$ dollar

- 7) Use the place-value chart to find the correct expansion of 214,537:

Hundred-Thousands	Ten-Thousands	Thousands	Hundreds	Tens	Ones
2	1	4	5	3	7

- A. $200,000 + 10,000 + 4,000 + 50 + 30 + 7$ C. $200,000 + 140,000 + 537$
 B. $2,000 + 1,000 + 4,000 + 500 + 30 + 7$ D. $200,000 + 10,000 + 4,000 + 500 + 30 + 7$
- 8) Which number line best shows 8,250 and where it rounds?



- A. 8,250 rounds to 8,000 C. 8,250 rounds to 9,000
 B. 8,250 rounds to 8,500 D. 8,250 stays the same



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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.NF.B.3) To check a decomposition, add the numerators and keep the same denominator. $\frac{6}{12} + \frac{5}{12} = \frac{6+5}{12} = \frac{11}{12}$ ✓. *Note:* this is one of several valid ways to decompose $\frac{11}{12}$ —you could also use $\frac{4}{12} + \frac{7}{12}$ or $\frac{1}{12} + \frac{10}{12}$, etc.
- Choice A is correct.** (4.NBT.B.6) Ask: $8 \times ? = 360$. Since $8 \times 45 = 360$, we need **45** vans for all the students.
- Choice A is correct.** (4.MD.C.5) The diagram shows the angle from 0° to 60° , giving us **60** one-degree angles.
- Choice D is correct.** (4.NF.A.1) All have numerator 1, so compare denominators: bigger denominators mean smaller pieces. Order: $4 < 3 < 2$, so $\frac{1}{4} < \frac{1}{3} < \frac{1}{2}$.
- Choice B is correct.** (4.NF.B.3) To decompose means to break apart. Breaking $\frac{6}{8}$ into unit fractions means showing it as a sum of $\frac{1}{8}$'s: $\frac{6}{8} = \underbrace{\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}}_{6 \text{ copies}}$.
- Choice C is correct.** (4.MD.A.2) The cafeteria used 6 gallons on Monday and 8 gallons on Tuesday. Add them: $6 + 8 = 14$ gallons. They used **14** gallons in total.
- Choice A is correct.** (4.NBT.A.3) This word problem asks us to find how many are left, so we subtract. $8,234 - 2,456 =$ **5,778** stickers.
- Choice B is correct.** (4.MD.C.5) An angle always has exactly **2** rays that form its sides.
- The correct answer is 8 in.** (4.MD.A.3) From area formula: $72 = 9 \times w$. Divide: $w = 72 \div 9 = 8$ in.
- Choice D is correct.** (4.OA.A.2) The bar model shows Diego's bar is twice as long as Miguel's—2 groups of 6. So multiply: $2 \times 6 = 12$ cars.
- Choice C is correct.** (4.G.A.3) The letter *A* looks the same on both sides of a vertical line running down its middle. Fold it along that line and both sides match perfectly! The answer is letter **A**.
- Choice B is correct.** (4.NF.B.4) Starting at 0, we jump 8 times, each jump being $\frac{1}{10}$. The final position is $8 \times \frac{1}{10} = \frac{8}{10}$.
- Choice A is correct.** (4.NF.B.4) We multiply the number of candies by the weight of each: $6 \times \frac{1}{8} = \frac{6}{8}$ pound. Simplify $\frac{6}{8}$ to get $\frac{3}{4}$ pound.
- Choice A is correct.** (4.MD.C.6) The protractor has a flat edge (the baseline) where one ray must sit. This ray should align with the 0° mark on that straight edge. The curved edge is for reading the degree measure, not for placing the rays. The answer is the straight baseline edge.
- Choice D is correct.** (4.NF.A.1) Divide both top and bottom by 2: $\frac{4}{8} = \frac{4 \div 2}{8 \div 2} = \frac{2}{4}$. Then divide again by 2: $\frac{2}{4} = \frac{1}{2}$.
- Choice D is correct.** (4.OA.B.4) The word "multiply" tells us to repeat groups. Doubling: $5 \rightarrow 10 \rightarrow 20 \rightarrow 40$. The rule is "multiply by 2" ✓.
- Choice A is correct.** (4.NF.C.5) Compare the tenths place first: $0 < 2 < 7$. For the two decimals with tenths = 7, compare hundredths: $0 < 2$, so $0.70 < 0.72$.
- The correct answer is A, C.** (4.NF.B.3) Let's check each statement. Step 1 (for A and C): Add the amounts: $\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$ cups total (A is correct). Find the difference: $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$ cup more sugar (C is correct). Step 2 (why others fail): B claims $\frac{5}{8}$, but we got $\frac{5}{4}$. D claims $\frac{1}{8}$, but the difference is $\frac{1}{4}$. E compares the ratio 2:3, which is not half.
- Choice A is correct.** (4.NBT.B.5) Round: $47 \approx 50$ and $19 \approx 20$. Then $50 \times 20 = 1000$ is a good estimate of the product.
- Choice D is correct.** (4.OA.A.3) Two steps! Step 1: equal groups means divide. $24 \div 4 = 6$ stickers in the group Sam keeps. Step 2: add the new stickers: $6 + 8 = 14$ stickers now.
- The correct answer is 6.** (4.MD.B.4) Add up all the X marks: $1 + 2 + 3 =$ **6** X marks in total.
- Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest hundred. Look at the tens digit: 4. Since $4 < 5$, we round DOWN. The hundreds digit stays at 3, so the answer is **9,300**. ✓
- Choice A is correct.** (4.MD.C.7) When smaller angles combine, they add to form the larger angle: $22^\circ + 58^\circ =$ **80°** .
- Choice C is correct.** (4.G.A.2) Since all three angles are less than 90 degrees (acute angles), this triangle is classified as an acute triangle. The answer is **C**.



Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 8 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Scientist

8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

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Strengthen skills needed for future learning.

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- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Geometry & Shapes
- ✓ Measurement & Data
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