

9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

Tennessee TCAP

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**9 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
BUILD SKILLS & CONFIDENCE**



**ANSWER KEY
FOR ALL TESTS**



$$\frac{3}{4} + \frac{1}{4} = 1$$



$$725 - 358 = 367$$

PREPARE
PRACTICE
SUCCEED
PERFORM

**PRACTICE TODAY.
SUCCEED TOMORROW.**

9 Tennessee TCAP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine 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!

Nine steady rounds on the Volunteer State math route

This book gives you nine 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?

Nine tests, 270 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 7–9 | 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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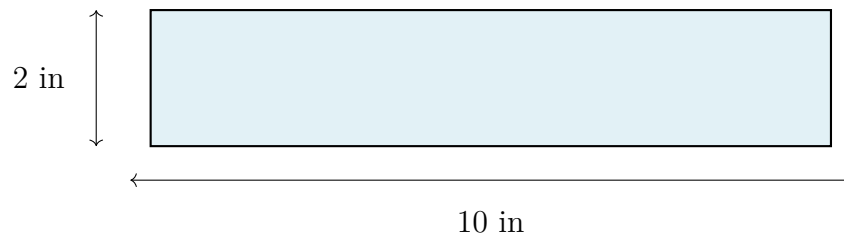
5) Which pattern shows only odd numbers?

A. 2, 4, 6, 8, 10

C. 2, 3, 4, 5, 6

B. 1, 3, 5, 7, 9

D. 5, 10, 15, 20, 25



6)

10 in

What is the perimeter of the rectangle shown?

A. 12 in

C. 20 in

B. 24 in

D. 30 in

7) How many unit fractions of $\frac{1}{2}$ make up $\frac{2}{2}$?

A. 1

C. 3

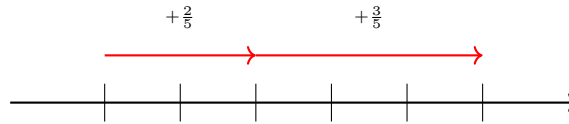
B. 2

D. 4

8) What is the sixth multiple of 4?



9) Which number line shows $\frac{2}{5} + \frac{3}{5} = 1$?



- A. Starts at $\frac{2}{5}$, hops to $\frac{3}{5}$
 C. Starts at 1, hops backward to $\frac{3}{5}$
 B. Starts at 0, hops to $\frac{2}{5}$, then to 1
 D. Starts at 0, hops to $\frac{5}{5}$

10) Which comparison is correct?

- A. $456,200 > 456,300$
 C. $189,450 = 189,451$
 B. $345,678 < 345,667$
 D. $234,567 < 234,576$

11) Which decomposition of $\frac{9}{12}$ has three equal parts?

- A. $\frac{3}{12} + \frac{3}{12} + \frac{3}{12}$
 C. $\frac{1}{12} + \frac{4}{12} + \frac{4}{12}$
 B. $\frac{2}{12} + \frac{3}{12} + \frac{4}{12}$
 D. $\frac{5}{12} + \frac{2}{12} + \frac{2}{12}$

12) A farmer has two fields. Field A is 0.83 km wide and Field B is 0.38 km wide. Which field is wider?



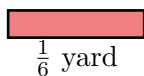
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5) Noah mixed together 3 batches of paint. Each batch is $\frac{1}{6}$ gallon. How many gallons of paint does Noah have?

- A. $\frac{1}{6}$ gallon C. $\frac{4}{6}$ gallon
 B. $\frac{2}{6}$ gallon D. $\frac{1}{2}$ gallon (same as $\frac{3}{6}$)

6) A line plot shows leaf lengths in halves of an inch: $\frac{1}{2}$, $\frac{1}{2}$, 1, $\frac{1}{2}$, 1, 1. How many leaves measured 1 inch?

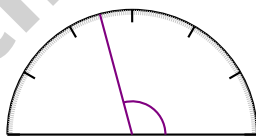
- A. 1 C. 3
 B. 2 D. 4



7)

The ribbon above is $\frac{1}{6}$ yard long. If Zara lines up 4 of these ribbons end-to-end, how long is the line?

- A. $\frac{4}{6}$ yard (or $\frac{2}{3}$ yard) C. $\frac{1}{24}$ yard
 B. $\frac{4}{24}$ yard D. $\frac{6}{4}$ yards



8)

What is the measure of this angle?

- A. 95 degrees C. 125 degrees
 B. 115 degrees D. 105 degrees

1) Round 15,678 to the nearest ten.

A. 15,670

C. 15,600

B. 16,000

D. 15,680

2) Which fraction equals $\frac{3}{4}$?

A. $\frac{6}{8}$

C. $\frac{2}{5}$

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

D. $\frac{5}{8}$

3) A rectangle has an area of 56 square centimeters. The width is 7 centimeters. What is the length?

A. 6 cm

C. 8 cm

B. 7 cm

D. 9 cm

4) A pattern of dots is arranged in rows:



Figure 1



Figure 2



Figure 3

If the pattern continues, how many dots are in Figure 4?

A. 12

C. 18

B. 20

D. 16

5) Ming walks 2 miles to school. How many yards is this?

A. 528

C. 3,520

B. 1,056

D. 5,280



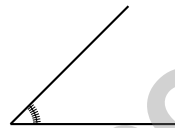
6) Write the number 12,405 in word form.

- A. Twelve thousand, four hundred fifty C. One hundred twenty thousand, four hundred five
- B. Twelve thousand, forty-five D. Twelve thousand, four hundred five

7) Noah used $\frac{5}{6}$ of his paint to paint a fence. Maria used $\frac{3}{4}$ of her paint on a wall. Assuming they started with the same amount, who used more paint?

- A. Noah used more C. They used the same amount
- B. Maria used more D. Cannot determine

8)



This angle shows tick marks from 0 to 45. What is the measure?

- A. 44° C. 46°
- B. 45° D. 90°
- 9) Mia had $\frac{9}{10}$ gallon of paint and used $\frac{4}{10}$. How much is left?

10) How many factor pairs does 35 have?



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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

- 1) **Choice A is correct.** (4.NF.C.5) The place-value chart displays 9 tenths and 2 hundredths. Combine them: $0.9 + 0.02 = 0.92$.
- 2) **Choice C is correct.** (4.MD.C.5) A right angle has a perfect square corner, like the corner of a piece of paper.
- 3) **Choice C is correct.** (4.NBT.A.3) For 7,249: tens digit is $4 < 5$, round DOWN to 7,200 ✓. For 7,251: tens digit is $5 \geq 5$, round UP to 7,300 ✓. A small change (two digits) flips the rounding!
- 4) **Choice A is correct.** (4.NBT.A.3) Add by place value: ones $4 + 5 = 9$, tens $3 + 6 = 9$, hundreds $2 + 7 = 9$, thousands $1 + 8 = 9$, ten-thousands $4 + 3 = 7$. The sum is **79,999**.
- 5) **Choice B is correct.** (4.OA.B.4) Odd numbers end in 1, 3, 5, 7, or 9. Choice B has 1, 3, 5, 7, 9—all odd. Choices A, C, D each contain at least one even number.
- 6) **Choice B is correct.** (4.MD.A.3) From the diagram: 10 in long and 2 in wide. Perimeter = $2(10) + 2(2) = 20 + 4 = 24$ in.
- 7) **Choice B is correct.** (4.NF.B.3) $\frac{2}{2}$ means the whole, which breaks into unit fractions: $\frac{2}{2} = \frac{1}{2} + \frac{1}{2}$. So there are **2** unit fractions of $\frac{1}{2}$.
- 8) **The correct answer is 24.** (4.OA.B.4) The n th multiple of 4 is just $4 \times n$. So the sixth multiple is $4 \times 6 = 24$. Skip-count to verify: 4, 8, 12, 16, 20, 24. ✓
- 9) **Choice B is correct.** (4.NF.B.3) Start at 0. Hop right by $\frac{2}{5}$, then hop right by $\frac{3}{5}$ more. You land exactly at 1. That's $\frac{2}{5} + \frac{3}{5} = 1$.
- 10) **Choice D is correct.** (4.NBT.A.2) Looking at B: thousands and hundreds match. Tens place: $6 < 7$, so 234,567 < 234,576 is true. Others are false ✓
- 11) **Choice A is correct.** (4.NF.B.3) Three pieces, all the same: $\frac{3}{12} + \frac{3}{12} + \frac{3}{12}$. Add the numerators: $3 + 3 + 3 = 9$, giving $\frac{9}{12}$ ✓.
- 12) **The correct answer is Field A.** (4.NF.C.5) Compare tenths first (they outweigh hundredths). Field A has 8 tenths; Field B has 3 tenths. Since $8 > 3$, $0.83 > 0.38$, so Field A is wider. ✓
- 13) **The correct answer is 7.** (4.OA.A.2) The school's 28 basketballs are 4 times the soccer balls. To find the smaller amount, divide: $28 \div 4 = 7$ soccer balls.
- 14) **Choice A is correct.** (4.NF.A.1) Multiply both top and bottom by 2: $\frac{1}{4} = \frac{1 \times 2}{4 \times 2} = \frac{2}{8}$.
- 15) **The correct answer is A, E.** (4.NF.C.5) Choice A: $\frac{70}{100}$ is the hundredths form of $\frac{7}{10}$ —multiply by $\frac{10}{10}$. Choice E is $\frac{7}{10}$ itself. The others don't equal 7 tenths.
- 16) **Choice C is correct.** (4.MD.B.4) On the line plot, count the X marks stacked above $\frac{2}{8}$ inch. There are **3** X marks.
- 17) **Choice B is correct.** (4.NF.B.4) The numerator tells us how many eighths there are. Since the numerator is 6, there are **6** eighths in $\frac{6}{8}$.
- 18) **Choice B is correct.** (4.NF.B.3) Add the wholes: $2 + 1 + 1 = 4$. Add the fractions: $\frac{5}{10} + \frac{3}{10} + \frac{1}{10} = \frac{9}{10}$. The sum is $4\frac{9}{10}$.
- 19) **Choice C is correct.** (4.MD.C.6) At 55° , the first angle is less than 90° , so it's acute. At 165° , the second angle is between 90° and 180° , so it's obtuse. We have one of each type. The answer is one acute and one obtuse.
- 20) **Choice D is correct.** (4.MD.A.1) Since 1 mile = 1,760 yards, divide: $8,800 \div 1,760 = 5$ miles. The answer is **5** miles.
- 21) **Choice B is correct.** (4.NF.B.3) Sam used some string, so subtract the amount used from what he started with: $2\frac{2}{4} - 1\frac{1}{4} = 1\frac{1}{4}$ meters of string remains.
- 22) **Choice D is correct.** (4.MD.C.5) On a clock, 3 and 9 are opposite each other, forming a straight line. The angle between them is 180° .
- 23) **Choice B is correct.** (4.G.A.3) A non-square rectangle is longer in one direction, so it balances in two ways: a vertical fold through the middle and a horizontal fold through the middle. The answer is **2** lines of symmetry.
- 24) **Choice A is correct.** (4.MD.C.5) The angle extends from 0° to 40° , giving us 40° .
- 25) **Choice D is correct.** (4.NBT.B.5) Break apart $13 = 10 + 3$ and multiply: $(10 \times 12) + (3 \times 12) = 120 + 36 = 156$.



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Math Detective at Work

Hi, Math Detective!

◇ You did such a great job! You finished 9 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

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- ✓ Measurement & Data
- ✓ Perimeter & Area
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