

5

Tennessee

TCAP

GRADE 3

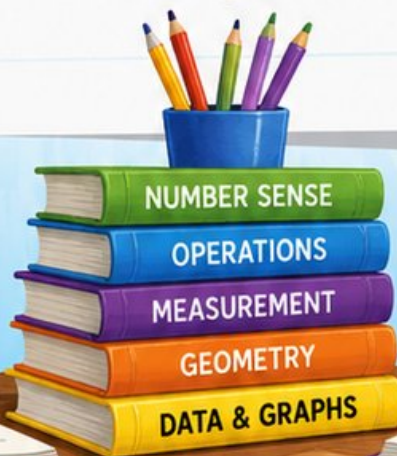
MATH

PRACTICE TESTS

Standards-Aligned Practice with  
Review, Answer Keys, and Explanations

$24 \div 3 = 8$

$125 + 37$



5 FULL-LENGTH  
PRACTICE TESTS



STANDARDS-  
ALIGNED  
PRACTICE



DETAILED  
ANSWER KEYS



CLEAR  
EXPLANATIONS  
TO HELP YOU SUCCEED

# 5 Tennessee TCAP Grade 3 Math Practice Tests

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



Five focused 30-question checkpoints for Grade 3 math: facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome to the Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

## To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the Tennessee TCAP. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Tennessee has mountain music, river roads, city lights, and rhythm where patterns meet. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

### Notice

Circle key words, units, and numbers before you start.

### Build

Use arrays, number lines, equations, tables, or sketches.

### Verify

Ask, "Does this answer fit the question?"

**Five-checkpoint promise:** I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

# How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

**Best review habit:** Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



## What Is Inside?

Five complete practice tests with review support

| Part                | What You Do                                              | Why It Helps                                              |
|---------------------|----------------------------------------------------------|-----------------------------------------------------------|
| Practice Tests 1–5  | Solve five different 30-question tests.                  | Build stamina and see many Grade 3 skills mixed together. |
| Answer Keys         | Check each answer in compact boxes.                      | Find mistakes quickly without losing your place.          |
| Explanations        | Read the reason behind each answer.                      | Turn missed items into a clear next step.                 |
| Standards Reference | See how Tennessee Grade 3 standards connect to practice. | Understand the skills behind the questions.               |

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. That mix gives students practice with quick choices, careful reasoning, and short written answers.



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For more practice  
& answers

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7) Which fraction bar pair shows equivalent fractions (same shaded region size)?



- A. The bars are not the same length.       C. No, Option 1 is larger.  
 B. No, Option 2 is larger.                       D. Yes, they are equivalent.

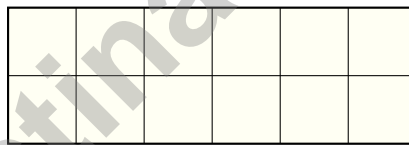


Parallelogram

8)

A parallelogram always has which property?

- A. All sides equal                                       C. Opposite sides parallel  
 B. 4 right angles                                       D. No right angles

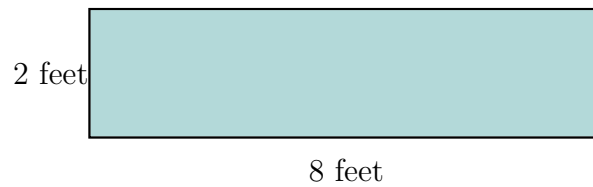


9)

How many unit squares are in this rectangle?







1)

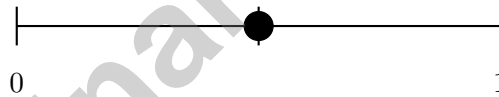
A rectangular bench top is 8 feet long and 2 feet wide. What is the area?

- A. 10 sq ft                       C. 20 sq ft  
 B. 16 sq ft                       D. 40 sq ft

2) Sam starts his homework at 3 : 20 PM. He finishes at 3 : 55 PM. How many minutes did Sam spend on homework?

- A. 30 minutes                       C. 40 minutes  
 B. 35 minutes                       D. 20 minutes

3) The dot marks a point on this number line. What fraction is it?



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

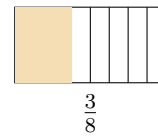
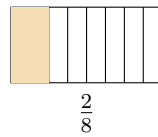
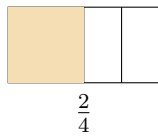
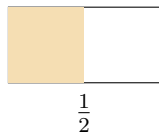
4) Eli bought 48 buttons for his sewing project. He needs 6 buttons per shirt. How many shirts can he complete?

- A. 6 shirts                                       C. 9 shirts  
 B. 7 shirts                                       D. 8 shirts



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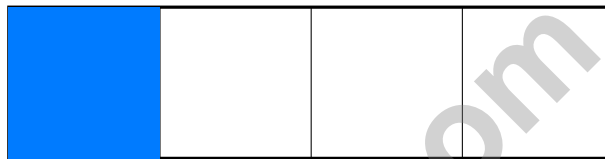
5) Which pair of fractions shows the SAME amount shaded?



- A.  $\frac{1}{2}$  and  $\frac{2}{4}$   
 B.  $\frac{2}{4}$  and  $\frac{2}{8}$

- C.  $\frac{1}{2}$  and  $\frac{2}{8}$   
 D.  $\frac{2}{4}$  and  $\frac{3}{8}$

6) Look at the picture. The rectangle is divided into equal parts, and some parts are shaded.

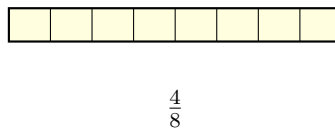
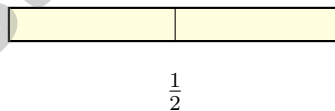


Which fraction is shaded?

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

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

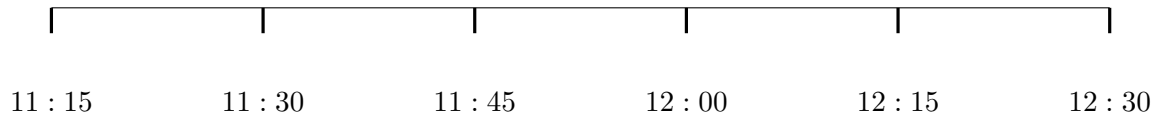
7) Which fraction is equivalent to  $\frac{4}{8}$ ?



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

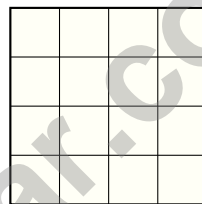
- C.  $\frac{3}{8}$   
 D.  $\frac{3}{4}$

1) Look at the number line showing a time interval.



What is the elapsed time from 11 : 30 to 12 : 15?

- A. 45 minutes                                   C. 30 minutes  
 B. 35 minutes                                   D. 60 minutes
- 2) Mia needs to tile a floor that is 4 feet by 4 feet using 1-foot by 1-foot tiles (unit squares in feet). How many tiles does she need?



4 feet

- A. 8 tiles                                           C. 16 tiles  
 B. 12 tiles                                         D. 20 tiles
- 3) A square piece of fabric has sides of 8 inches. What is its area?
- A. 16 square inches                                   C. 56 square inches  
 B. 32 square inches                                   D. 64 square inches



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4) Which is greater:  $\frac{2}{3}$  or  $\frac{2}{6}$ ?

5) A square garden is covered with unit square tiles. Each side of the garden is 5 units long. How many unit square tiles are needed?

A. 25 tiles

C. 10 tiles

B. 20 tiles

D. 30 tiles

6) A rectangle has area 20 square feet. Its length is 5 feet. What is its width?

A. 3 feet

C. 5 feet

B. 4 feet

D. 15 feet

7) Round 662 to the nearest 10.

A. 660

C. 665

B. 662

D. 670

8) Sasha reads 9 pages of a book each day. After 5 days, how many pages has Sasha read?

A. 40 pages

C. 14 pages

B. 54 pages

D. 45 pages



## Practice Test Answer Keys

**How to use this section with a Grade 3 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 B is correct.** **(3.MD.C.7b)** Area = width  $\times$  height =  $12 \times 6 = 72$  square inches.
- 2) **Choice C is correct.** **(3.MD.A.1)**  $7 : 29 + 1$  hour =  $8 : 29$ . Then  $8 : 29 + 16$  min =  $8 : 45$  AM.
- 3) **Choice A is correct.** **(3.NF.A.1)** A loaf cut into 8 equal slices has each slice as  $\frac{1}{8}$  (one-eighth).
- 4) **Choice D is correct.** **(3.OA.D.8)** Step 1: Find the new stickers:  $3 \times 8 = 24$ . Step 2: Add to her original:  $24 + 24 = 48$  stickers. (Choice A is just the original amount; choice B is step 1 only.)
- 5) **Choice C is correct.** **(3.OA.C.7)**  $32 \div 4 = 8$  because  $8 \times 4 = 32$ . You need 4 groups with 8 in each group.
- 6) **Choice B is correct.** **(3.NF.A.3b)** The numerator was multiplied by 2 (from 1 to 2). Multiply the denominator by 2:  $3 \times 2 = 6$ . So  $\frac{1}{3} = \frac{2}{6}$ .
- 7) **Choice D is correct.** **(3.NF.A.3a)**  $\frac{2}{4} = \frac{1}{2}$  because both represent one-half of their respective bars.
- 8) **Choice C is correct.** **(3.G.A.1)** By definition, a parallelogram has two pairs of opposite sides that are parallel. Not all parallelograms have right angles or equal sides.
- 9) **The correct answer is 12 unit squares.** **(3.MD.C.5a)** The rectangle is 6 units wide and 2 units tall:  $6 \times 2 = 12$  unit squares.
- 10) **Choice B is correct.** **(3.MD.B.4)** At most  $2\frac{1}{2}$  includes weights of 2,  $2\frac{1}{4}$ , and  $2\frac{1}{2}$  ounces. The plot has  $1 + 3 + 0 = 4$  X's at those values.
- 11) **Choice D is correct.** **(3.NF.A.3)**  $\frac{6}{8}$  and  $\frac{3}{4}$  mark the same point on the line.
- 12) **Choice D is correct.** **(3.OA.A.2)**  $24 \div 6 = 4$ . Divide the total students by the number of teams.
- 13) **Choice D is correct.** **(3.OA.A.4)** Use the inverse:  $35 \div 5 = 7$ . Check:  $7 \times 5 = 35$ .
- 14) **Choice C is correct.** **(3.NBT.A.1)** Numbers from 350 to 449 round to 400. The number 449 has tens  $4 < 5$ , so it rounds down to 400.
- 15) **Choice D is correct.** **(3.OA.D.9)** From 6 to 12 is +6; from 12 to 18 is +6; from 18 to 24 is +6.
- 16) **Choice B is correct.** **(3.NF.A.3d)** Same numerator: sixths are bigger pieces than eighths. Two sixths is greater than two eighths.
- 17) **Choices A and B are correct.** **(3.NF.A.2)**  $\frac{1}{2} = \frac{2}{4}$  because both represent the same distance: halfway from 0 to 1. The other fractions name different points.
- 18) **The correct answer is 1050 g.** **(3.MD.A.2)** Add:  $300 + 400 + 350 = 1050$  g.
- 19) **Choice C is correct.** **(3.MD.B.3)** Multiply:  $3 \times 5 = 15$  cookies.
- 20) **Choice A is correct.** **(3.NF.A.2a)** When the interval from 0 to 1 is split into 5 equal parts, each part has length  $\frac{1}{5}$ .
- 21) **The correct answer is 36.** **(3.OA.A.1)**  $9 \times 4 = 36$ .
- 22) **Choice A is correct.** **(3.NF.A.3c)**  $\frac{8}{4}$  means 8 fourths. 4 fourths make 1 whole, so 8 fourths make 2 wholes.
- 23) **Choice C is correct.** **(3.MD.C.7c)**  $3 \times 5$  and  $2 \times 4$  do not share a matching side length. To use this area model, the two smaller rectangles need one matching dimension.
- 24) **Choice B is correct.** **(3.MD.C.7)** Area =  $2 \times 3 = 6$  square cm.
- 25) **Choice C is correct.** **(3.MD.C.7d)** Vertical:  $7 \times 6 = 42$  sq units. Horizontal:  $8 \times 3 = 24$  sq units. Total:  $42 + 24 = 66$  sq units.
- 26) **Choice A is correct.** **(3.MD.C.5)** Rectangle X covers  $5 \times 2 = 10$  square units. Rectangle Y covers  $2 \times 3 = 6$  square units. So Rectangle X has the greater area.
- 27) **Choice C is correct.** **(3.MD.C.5b)** Counting rows and columns: 5 units wide and 3 units tall gives  $5 \times 3 = 15$  unit squares.
- 28) **Choice D is correct.** **(3.OA.B.6)**  $54 \div 6 = \square$  means  $\square \times 6 = 54$ . Since  $9 \times 6 = 54$ , the answer is 9.
- 29) **Choice A is correct.** **(3.OA.B.5)** By the distributive property,  $3 \times (4 + 5) = 3 \times 4 + 3 \times 5 = 12 + 15 = 27$ .
- 30) **Choice A is correct.** **(3.NBT.A.3)**  $5 \times 70 = (5 \times 7) \times 10 = 35 \times 10 = 350$ . By decomposing  $70 = 7 \times 10$  and using the associative property, we see that only choice A equals 350.



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## 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

# Build Skills. Boost Confidence. Excel in Grade 3 Math!

This book provides 5 full-length Grade 3 math practice tests that follow standards and help students achieve real results.



## 5 Full-Length Practice Tests

Realistic tests to build stamina and familiarity.



## Standards-Aligned Practice

Questions match Grade 3 math standards and key skills.



## Answer Keys & Explanations

Detailed answers that show steps and clear reasoning.



## Review & Master Skills

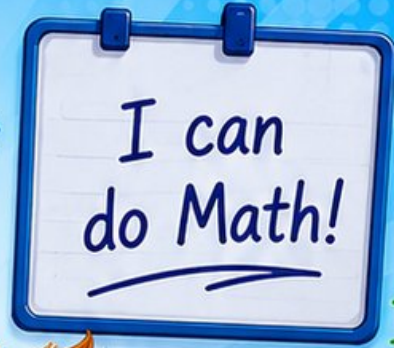
Strengthen concepts in numbers, operations, fractions, geometry, measurement, and more.

## COVERS ALL ESSENTIAL TOPICS

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- ✓ Operations & Algebraic Thinking
- ✓ Number Patterns
- ✓ Fractions & Decimals
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- ✓ Geometry
- ✓ Perimeter, Area & Volume
- ✓ Time & Money
- ✓ Data & Graphs
- ✓ Word Problems
- ✓ And More!



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for more Grade 3 math resources  
and practice materials!



$$\begin{array}{r} 7 \times 8 \\ = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ - 178 \\ \hline = 274 \end{array}$$



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