

10 Tennessee TCAP

GRADE 3

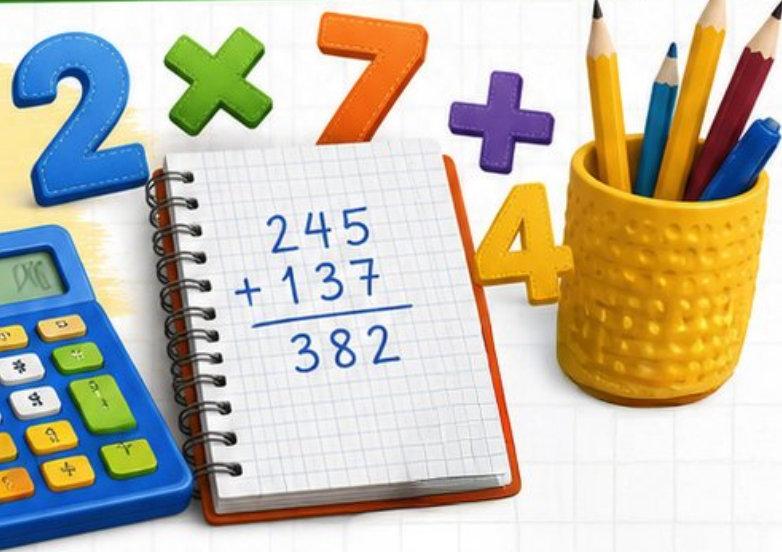
MATH

PRACTICE TESTS

✓ Complete Standards Review

✓ Skill Practice

✓ Word Problems
and Answer Key



★ ★ ★
PREPARE
PRACTICE
SUCCEED!
★ ★ ★



Aligned to
Grade 3 Math
Standards



Build Confidence
and Master
Math Skills



Test-Taking
Practice for
Success



Answer Key
for Easy
Review

10 Tennessee TCAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 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!

Ten steady rounds on the Volunteer State math route

This book gives you ten full Grade 3 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?

Ten tests, 300 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.
Test 10	Final round to show growth across the whole Tennessee book.
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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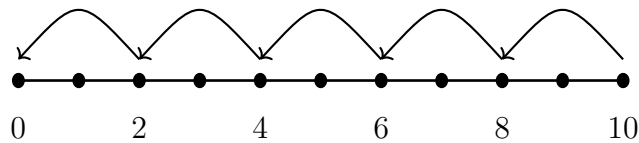
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1) A tiled rectangle has two parts: $10 \times 3 = 30$ and $10 \times 7 = 70$. Which expanded distributive equation is correct?

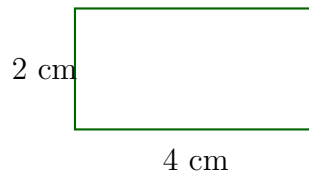
- A. $10 \times (3 + 7) = 10 + 10 = 20$ C. $10 \times 3 + 7 = 37$
 B. $(10 \times 3) + (10 \times 7) = 30 + 70 = 100$ D. $3 + 7 = 10$

2) Which number sentence is shown by the repeated subtraction on the number line?



- A. $10 \div 2 = 5$ C. $10 - 2 = 8$
 B. $10 \div 5 = 2$ D. $2 \times 5 = 10$

3) What is 4×50 ?



4)

Find the area of the rectangle shown above.

- A. 6 sq cm C. 4 sq cm
 B. 8 sq cm D. 12 sq cm



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5) What is $367 + ? = 650$? Find the missing addend.

A. 283

C. 293

B. 273

D. 382

6) A square is 5 unit squares long on each side. How many unit squares cover it?

A. 20 unit squares

C. 12 unit squares

B. 10 unit squares

D. 25 unit squares

7) A store has 3 shelves with 12 books on each shelf. Plus 9 more books on a table. What is the total number of books?

A. 24

C. 45

B. 36

D. 63

8) On a number line from 0 to 1, the first tick is very small and close to zero. Which unit fraction makes sense?

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

C. $\frac{1}{8}$

B. $\frac{1}{3}$

D. $\frac{1}{1}$

9) Two fraction bars are shown. Bar 1 shows $\frac{2}{3}$ shaded. Bar 2 shows $\frac{4}{6}$ shaded. The shaded regions are the same size. Which statement is true?

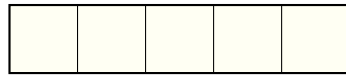
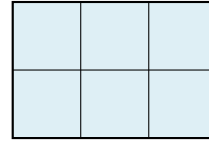
A. $\frac{2}{3} < \frac{4}{6}$

C. $\frac{2}{3} = \frac{4}{6}$

B. $\frac{2}{3} > \frac{4}{6}$

D. Cannot be compared



A: 5×1 B: 3×2

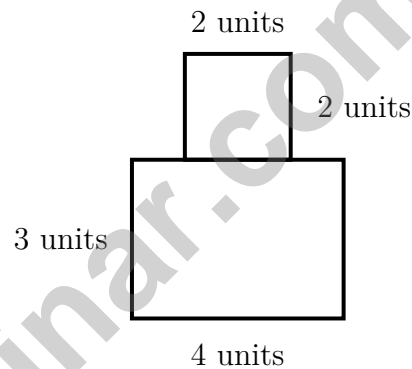
10)

Which rectangle has an area of 6 unit squares?

- A. Rectangle A
 B. Rectangle B

- C. Both have the same area
 D. Neither has an area of 6

11) A composite figure shows:



What is the total area?

- A. 12 sq units
 B. 4 sq units

- C. 16 sq units
 D. 18 sq units

12) Which property is NOT true for all rectangles?

- A. All sides are equal in length
 B. They have 4 right angles

- C. They have 4 sides
 D. Opposite sides are equal in length

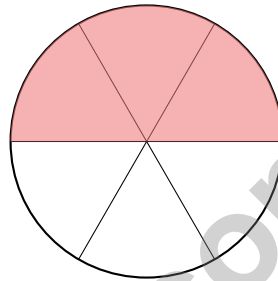


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1) A unit square measures 1 centimeter by 1 centimeter. How many unit squares are needed to cover a 5 cm by 4 cm rectangle?

- A. 9 unit squares
 B. 18 unit squares
 C. 20 unit squares
 D. 25 unit squares

2) A circle is divided into 6 equal parts. Three parts are shaded. Which fraction shows the shaded part?



- A. $\frac{1}{6}$
 B. $\frac{3}{6}$
 C. $\frac{3}{3}$
 D. $\frac{12}{6}$

3) A classroom has 3 tables. Each table has 9 chairs. How many chairs are there altogether?

- A. $9 - 3 = 6$
 B. $3 + 9 = 12$
 C. $9 \times 9 = 81$
 D. $3 \times 9 = 27$

4) Lily has 16 strawberries. She puts them equally into 2 bowls. How many strawberries are in each bowl?

- A. 7
 B. 18
 C. 14
 D. 8



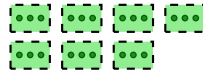
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1) Which picture shows 21 items divided equally into 3 groups?

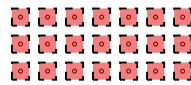
- A. Three groups of five



- B. Seven groups of three



- C. Twenty-one groups of one



- D. Three groups of seven



2) A square is 8 units on each side. A rectangle is 4 units by 16 units. Compare their areas. Which statement is true?

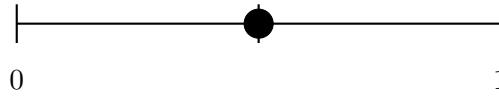
- A. The square has more area C. They have exactly the same area
 B. The rectangle has more area D. The square is longer

3) What number makes this equation true?

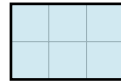
$$\square \div 5 = 7$$



- 4) A point is marked on a number line from 0 to 1 with 2 equal parts. The point is at $\frac{1}{2}$. Which statement is true?



- A. It is closer to 0 than 1
 B. It is closer to 1 than 0
 C. It is halfway between 0 and 1
 D. It is at 0
- 5) This shape is made of unit squares on a grid.



How many unit squares cover this rectangle?

- A. 6 sq units
 B. 5 sq units
 C. 8 sq units
 D. 10 sq units
- 6) Which fraction is equivalent to $\frac{1}{3}$?
- A. $\frac{1}{6}$
 B. $\frac{2}{6}$
 C. $\frac{3}{6}$
 D. $\frac{1}{4}$
- 7) Which fraction is equal to the whole number 5?
- A. $\frac{5}{1}$
 B. $\frac{5}{5}$
 C. $\frac{1}{5}$
 D. $\frac{5}{2}$



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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.5)** The expanded distributive equation adds the two smaller rectangle areas: $(10 \times 3) + (10 \times 7) = 30 + 70 = 100$.
- 2) **Choice A is correct.** **(3.OA.A.2)** The number line shows 5 jumps of -2 from 10 to 0. This represents $10 \div 2 = 5$ (there are 5 groups of 2 in 10).
- 3) **The correct answer is 200.** **(3.NBT.A.3)** Multiply $4 \times 5 = 20$, then add one zero: $4 \times 50 = 200$.
- 4) **Choice B is correct.** **(3.MD.C.8)** Area = length \times width = $4 \times 2 = 8$ square centimeters. Choice A (6) is the sum; C (4) is one dimension; D (12) is 4×3 .
- 5) **Choice A is correct.** **(3.NBT.A.2)** Subtract to find the missing addend: $650 - 367 = 283$. Check: $367 + 283 = 650$.
- 6) **Choice D is correct.** **(3.MD.C.5)** A 5 by 5 square has $5 \times 5 = 25$ unit squares.
- 7) **Choice C is correct.** **(3.OA.D.8)** Step 1: Multiply for shelf books: $3 \times 12 = 36$ books. Step 2: Add table books: $36 + 9 = 45$ books. (Choice B is step 1 only.)
- 8) **Choice C is correct.** **(3.NF.A.1)** Eighths are small pieces, so $\frac{1}{8}$ is close to 0 compared to halves or thirds.
- 9) **Choice C is correct.** **(3.NF.A.2)** Two fractions are equivalent if they represent the same-size region. Since both shaded regions are equal, $\frac{2}{3} = \frac{4}{6}$.
- 10) **Choice B is correct.** **(3.MD.C.6)** Rectangle A is $5 \times 1 = 5$ unit squares. Rectangle B is $3 \times 2 = 6$ unit squares.
- 11) **Choice C is correct.** **(3.MD.D)** Bottom rectangle: $4 \times 3 = 12$ sq units. Top rectangle: $2 \times 2 = 4$ sq units. Total: $12 + 4 = 16$ sq units.
- 12) **Choice A is correct.** **(3.G.A.1)** Not all rectangles have equal sides. Only squares have all 4 sides equal. All rectangles do have 4 sides, 4 right angles, and opposite sides equal.
- 13) **Choice A is correct.** **(3.NBT.A.1)** The tens digit is 3. Since $3 < 5$, round down: 137 rounds to 100.
- 14) **Choice A is correct.** **(3.OA.A.3)** Multiply: 2 groups \times 9 items per group = 18 total.
- 15) **Choice C is correct.** **(3.MD.C.5)** $3 \times 5 = 15$ square units, not 16. The others work: $4 \times 4 = 16$, $2 \times 8 = 16$, $1 \times 16 = 16$.
- 16) **Choices A and C are correct.** **(3.OA.C.7)** A: $48 \div 6 = 8$ and $8 \times 6 = 48$ match. B: $35 \div 7 = 5$, not 4. C: $56 \div 8 = 7$ and $7 \times 8 = 56$ match. D: $30 \div 5 = 6$ but $6 \times 5 = 30$, not 25. E: $45 \div 9 = 5$ but $5 \times 9 = 45$, not 40.
- 17) **Choice A is correct.** **(3.MD.A.2)** 4 kg = 4000 g, which is more than 2500 g.
- 18) **Choice C is correct.** **(3.NBT.A.1)** From 3 : 34 to 4 : 34 is 1 hour or 60 minutes. From 4 : 19 to 4 : 34 is 15 minutes. So from 3 : 34 to 4 : 19 is $60 - 15 = 45$ minutes.
- 19) **The correct answer is $\frac{3}{8}$.** **(3.NF.A.1)** Add the numerators: $1 + 1 + 1 = 3$, so the sum is $\frac{3}{8}$.
- 20) **Choice B is correct.** **(3.MD.B.4)** Sum at 3 and $3\frac{1}{4}$ is 5. If 2 are at 3 inches, then $5 - 2 = 3$ are at $3\frac{1}{4}$ inches.
- 21) **Choice D is correct.** **(3.OA.A.4)** Divide: $54 \div 6 = 9$. Each part is 9. Check: $6 \times 9 = 54$.
- 22) **Choice A is correct.** **(3.G.A.2)** $\frac{1}{4}$ of a rectangle divided into 4 equal parts means coloring 1 part.
- 23) **Choice A is correct.** **(3.OA.B.6)** From $6 \times 9 = 54$, one related division equation is $54 \div 6 = 9$ (the answer is the factor 9). Option B reverses correctly but is also valid; A is the expected answer. Options C and D use wrong operations.
- 24) **The correct answer is 30 flowers.** **(3.MD.B.3)** Red: $6 \times 3 = 18$. Yellow: $4 \times 3 = 12$. Total: $18 + 12 = 30$.
- 25) **Choice D is correct.** **(3.OA.B.5)** By the associative property, $(3 \times 2) \times 4 = 3 \times (2 \times 4) = 24$. Both groupings give the same product.
- 26) **Choice D is correct.** **(3.MD.C.6)** $5 \times 8 = 40$ unit squares.
- 27) **Choice B is correct.** **(3.NF.A.3)** Same numerator, different denominators. One third has bigger pieces than one sixth. Ava has a larger piece.
- 28) **Choice A is correct.** **(3.NF.A.3)** $\frac{2}{3}$ and $\frac{4}{6}$ represent the same amount. Both show two-thirds.
- 29) **Choice C is correct.** **(3.MD.C.7)** A square is a rectangle with equal sides. Area = $4 \times 4 = 16$ square cm.
- 30) **Choice C is correct.** **(3.MD.C.8)** Visual grid: 4 wide \times 5 tall = 20 square units.



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Hi, Math Inventor!

◇ 10 practice tests. 10 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

Inventor tip: on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

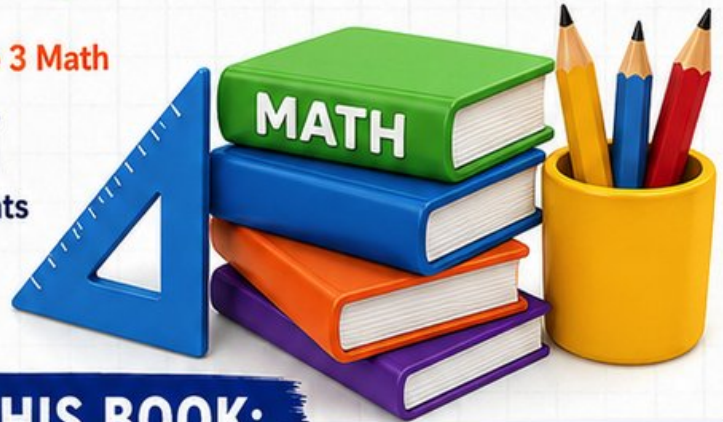
If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Inventor

PRACTICE TODAY. SUCCEED TOMORROW!

Give your child the advantage they need in **Grade 3 Math** with 10 full-length practice tests that build skills, boost confidence, and improve results. Designed to mirror real test formats, this book helps students master essential math concepts and feel ready for any challenge.



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