

6

Tennessee TCAP

GRADE 3

MATH

PRACTICE TESTS

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



6 Full-Length
Practice Tests



Detailed Answer Keys
and Explanations



Master Skills.
Boost Scores.
Succeed!

6 Tennessee TCAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question practice labs for Grade 3 math: operations, 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 Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

To the Grade 3 Math Builder

This book gives you six practice labs for the Tennessee TCAP. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Tennessee brings music streets, mountain overlooks, river bends, and rolling farms. Strong math uses that same care: read the task, select a strategy, build the solution, and keep rhythm in the steps of a solution.

Decode

Find the question, the units, and the useful numbers.

Design

Use an equation, array, number line, graph, or sketch.

Confirm

Make sure the answer matches the question.

Six-lab promise: I will work with patience, show useful thinking, and treat corrections as part of learning.

How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For Tennessee students, each lab is a short route through music streets, mountain overlooks, river bends, and rolling farms: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

Best review habit: A mistake is most useful when you can say why it happened and what you will do differently next time.



What Is Inside?

Six complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–6	Solve six different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	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. This gives students practice with quick decisions, careful reading, and short written math answers for the Tennessee TCAP path.



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1) What is $28 \div 4$?

A. 6

C. 8

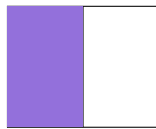
B. 7

D. 4

2) Find $(2 \times 3) \times 4$.

3) Which picture shows $\frac{1}{4}$ shaded?

A



B



C



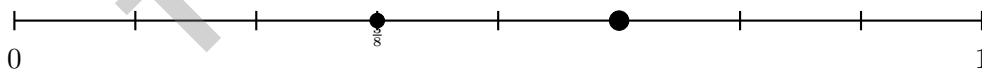
A. Picture A

C. Picture C

B. Picture B

D. None of these

4) A number line from 0 to 1 has 8 equal parts. If you start at $\frac{3}{8}$ and move 2 parts to the right, where do you land?



A. $\frac{3}{8}$

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

B. $\frac{4}{8}$

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



5) A rectangle is tiled by two smaller rectangles. One is 4×6 and the other is 4×2 . What is the total area?

A. 48

C. 20

B. 32

D. 12

6) A bakery makes 6 batches of cookies with 8 cookies per batch. They pack them into boxes with 4 cookies each. How many boxes do they fill?

A. 8

C. 12

B. 10

D. 14

7) What number is missing? $_ \times 50 = 350$

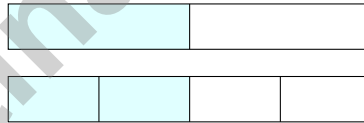
A. 7

C. 70

B. 35

D. 5

8) Two identical length strips. Strip P has 2 equal parts with 1 shaded. Strip Q has 4 equal parts with 2 shaded. Which statement is correct?



A. Strip Q has more.

C. They shade the same amount.

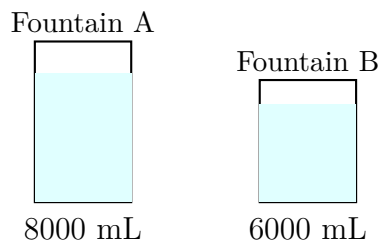
B. Strip P has more.

D. Cannot be compared.



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Two Fountains

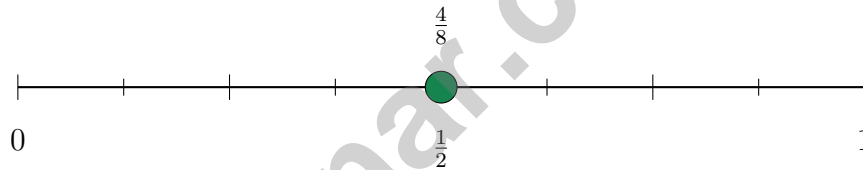


9)

A park has two water fountains. Fountain A holds 8000 mL and Fountain B holds 6000 mL. Which fountain holds less water?

- A. Fountain A C. Both hold the same
 B. Fountain B D. Cannot determine

10) Look at the number line. Where does $\frac{4}{8}$ land?



- A. At $\frac{1}{4}$ C. At $\frac{3}{4}$
 B. At $\frac{1}{2}$ D. At $\frac{1}{8}$

11) Noah has 28 flowers. He puts them equally into 4 vases. How many flowers are in each vase?

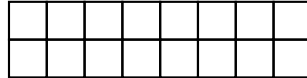
- A. 6 C. 24
 B. 32 D. 7



1) Which does NOT equal 6×3 ?

- A. 3×6
 C. $6 \times 2 + 6 \times 1$
 B. $6 \times (2 + 1)$
 D. $4 \times 3 + 2$

2) Mia covers a 2 by 8 rectangle with unit square tiles. Here is the grid:



Count the unit squares. How many are there?

- A. 10 unit squares (the perimeter)
 C. 8 unit squares
 B. 16 unit squares
 D. 20 unit squares

3) On a number line from 0 to 1, a point is marked but not labeled. The point is between $\frac{2}{6}$ and $\frac{4}{6}$. Which fraction best describes its position?



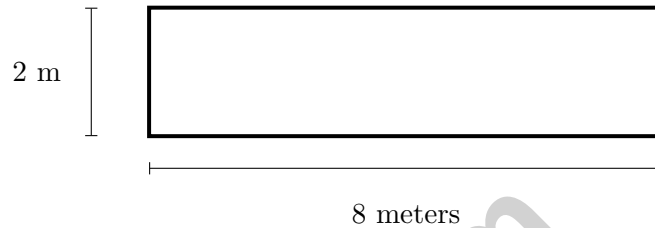
- A. $\frac{2}{6}$
 C. $\frac{4}{6}$
 B. $\frac{3}{6}$
 D. $\frac{5}{6}$

4) A student drew four shapes: a square, a rhombus, a rectangle, and a trapezoid. How many of these shapes are always parallelograms?

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



5) Ravi has 4 bags with 5 toys each and loses 8 toys. How many toys are left?



6)

Find the perimeter.

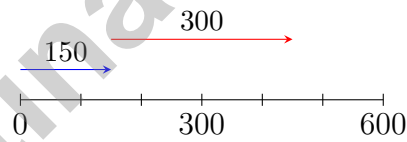
A. 10 m

B. 16 m

C. 20 m

D. 24 m

7)



Using the number line, what is $150 + 300$?

A. 400

B. 550

C. 500

D. 450



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1) Which pair of equations shows the commutative property with 3, 4, and 12?

A. $3 + 4 = 7$ and $4 + 3 = 7$

C. $12 - 3 = 9$ and $12 - 4 = 8$

B. $3 \times 3 = 9$ and $4 \times 3 = 12$

D. $3 \times 4 = 12$ and $4 \times 3 = 12$

2) Which pair shows equivalent fractions?

A. $\frac{1}{3}$ and $\frac{2}{3}$

C. $\frac{2}{6}$ and $\frac{1}{3}$

B. $\frac{1}{4}$ and $\frac{3}{8}$

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

3) $354 + 186 = ?$

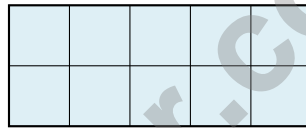
A. 540

C. 549

B. 539

D. 550

4)



What is the total area of this grid measured in unit squares?

A. 7 square units

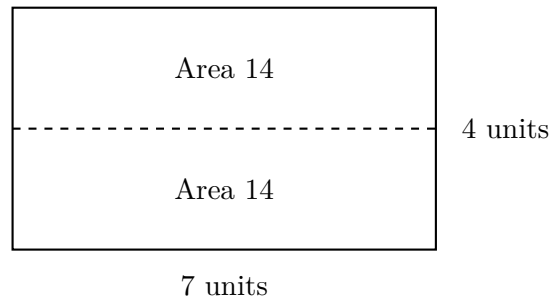
C. 12 square units

B. 10 square units

D. 15 square units

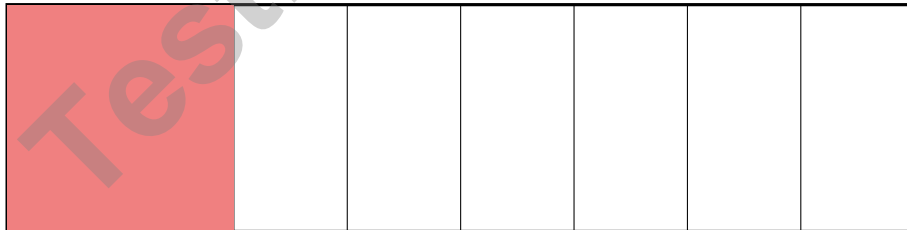


5) A rectangle has this tiling:



Which sum of the two smaller areas gives the total area?

- A. $7 \times 2 = 14$
 C. $14 + 14 = 28$
 B. $7 \times 3 = 21$
 D. $7 + 4 = 11$
- 6) Kai has 20 toy cars. He puts 5 toy cars in each group. Which division shows the number of groups?
- A. $20 \div 5 = 4$
 C. $20 + 5 = 25$
 B. $20 \div 4 = 4$
 D. $20 - 5 = 15$
- 7) A rectangle is divided into 8 equal parts. Two parts are shaded.



If each shaded part is a unit fraction, what is the total shaded fraction?

- A. $\frac{2}{8}$
 C. $\frac{2}{1}$
 B. $\frac{1}{3}$
 D. $\frac{1}{8}$



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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.OA.B.6)** $28 \div 4 = \square$ means $\square \times 4 = 28$. Since $7 \times 4 = 28$, the answer is 7. Option A ($6 \times 4 = 24$) is off-by-one. Option D confuses the divisor with the quotient.
- 2) **The correct answer is 24.** **(3.OA.B.5)** $(2 \times 3) \times 4 = 6 \times 4 = 24$.
- 3) **Choice C is correct.** **(3.NF.A.1)** Picture C shows a rectangle divided into 4 equal parts with 1 part shaded, which is $\frac{1}{4}$.
- 4) **Choice C is correct.** **(3.NF.A.2)** Starting at $\frac{3}{8}$ and moving 2 parts right means $3 + 2 = 5$, so you are at $\frac{5}{8}$.
- 5) **Choice B is correct.** **(3.MD.C.5)** $(4 \times 6) + (4 \times 2) = 24 + 8 = 32$. Both rectangles share width 4, so the total width is $6 + 2 = 8$.
- 6) **Choice C is correct.** **(3.OA.D.8)** Step 1: Total cookies: $6 \times 8 = 48$ cookies. Step 2: Divide into boxes: $48 \div 4 = 12$ boxes.
- 7) **Choice A is correct.** **(3.NBT.A.3)** Since $7 \times 50 = 350$, the missing factor is 7. We can work backwards: $350 \div 50 = 7$.
- 8) **Choice C is correct.** **(3.NF.A.2)** $\frac{1}{2} = \frac{2}{4}$ because both represent one-half of the strip.
- 9) **Choice B is correct.** **(3.MD.A.2)** 8000 mL is more than 6000 mL. So Fountain B holds less.
- 10) **Choice B is correct.** **(3.NF.A.3)** $\frac{4}{8}$ and $\frac{1}{2}$ mark the same point on the line.
- 11) **Choice D is correct.** **(3.OA.A.2)** $28 \div 4 = 7$. The 28 flowers are shared equally among 4 vases.
- 12) **Choice C is correct.** **(3.MD.C.6)** 6 units wide \times 2 units tall = 12 unit squares.
- 13) **Choice C is correct.** **(3.NBT.A.1)** The ones digit is 9. Since $9 \geq 5$, round up: 899 rounds to 900.
- 14) **Choice C is correct.** **(3.NF.A.3)** The denominator was multiplied by 2 (from 4 to 8). Multiply the numerator by 2: $3 \times 2 = 6$. So $\frac{3}{4} = \frac{6}{8}$.
- 15) **Choice B is correct.** **(3.NF.A.3)** Same numerator (1): eighths divide the whole into 8 tiny pieces (each piece is small), fourths divide into 4 larger pieces. One eighth (1 tiny piece) < one fourth (1 larger piece). Rule: same numerator, larger denominator means smaller pieces.
- 16) **Choices A and C are correct.** **(3.NBT.A.2)** Check each: A is $245 + 255 = 500$, B is $312 + 178 = 490$, C is $350 + 150 = 500$, D is $200 + 290 = 490$, and E is $289 + 212 = 501$. The two sums that equal 500 are A and C.
- 17) **Choice D is correct.** **(3.OA.A.4)** In this fact family, $24 \div 3 = 8$. This is the division equation that matches the multiplication $3 \times 8 = 24$.
- 18) **Choice B is correct.** **(3.MD.C.8)** Area = length \times width = $7 \times 6 = 42$ square inches.
- 19) **The correct answer is 4 sides.** **(3.G.A.1)** A square has 4 sides.
- 20) **Choice C is correct.** **(3.NF.A.2)** $\frac{6}{6}$ means six sixths, which make one whole. The point is at 1.
- 21) **Choice A is correct.** **(3.G.A.2)** When numerator = denominator, you have all the parts of one whole. $\frac{4}{4}$ has 4 fourths, which makes 1 whole.
- 22) **The correct answer is 4 plants.** **(3.MD.B.4)** At least 9 inches means $9, 9\frac{1}{2}$, and 10 inches: $0 + 1 + 3 = 4$ plants.
- 23) **Choice A is correct.** **(3.NBT.A.1)** From 6 : 15 PM to 8 : 15 PM is 2 hours. From 8 : 15 PM to 8 : 30 PM is 15 more minutes. Total: 2 hours 15 minutes. Distractor C adds incorrectly; B over-counts hours.
- 24) **Choice D is correct.** **(3.G.A.2)** Three vertical lines create 4 equal columns, so the rectangle is divided into 4 parts.
- 25) **Choice A is correct.** **(3.OA.D.9)** 1, 3, and 5 are odd numbers (shown in blue). 2 and 4 are even (shown in red).
- 26) **Choice D is correct.** **(3.OA.A.1)** The picture shows 2 rows with 5 circles in each row. So $2 \times 5 = 10$ or $5 \times 2 = 10$.
- 27) **Choice A is correct.** **(3.OA.A.3)** Use division: $45 \div 5 = 9$ inches. Check: $9 \times 5 = 45$ square inches. ✓
- 28) **Choice A is correct.** **(3.NF.A.1)** Two equal pieces means each is one half, written $\frac{1}{2}$. The denominator is the number of parts (2), and the numerator is 1 because we count one piece.
- 29) **Choice C is correct.** **(3.MD.C.7)** Rectangle 1: $2 \times 9 = 18$ sq units. Rectangle 2: $3 \times ? = 18$. So $? = 18 \div 3 = 6$ units.
- 30) **Choice D is correct.** **(3.OA.C.7)** $6 \times 7 = 42$. You can count by 7s: 7, 14, 21, 28, 35, 42.

Practice Test 2 Answers and Explanations



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Hi, Strong Climber!

◇ You climbed all 6 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.

Jay Daie

Your Math Trail Guide

BUILD CONFIDENCE. MASTER MATH. ACHIEVE SUCCESS!



This **Grade 3 Math Practice Tests** book is the perfect companion for students who want to strengthen their math skills and excel in school. With **6** full-length practice tests designed to reflect real test formats, students get the practice they need to understand key concepts, build problem-solving skills, and tackle any challenge with confidence.

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- ✓ Test Preparation

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- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
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