

3

Tennessee

TCAP

GRADE 3

MATH

PRACTICE TESTS

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Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



Build Confidence
with Targeted Practice

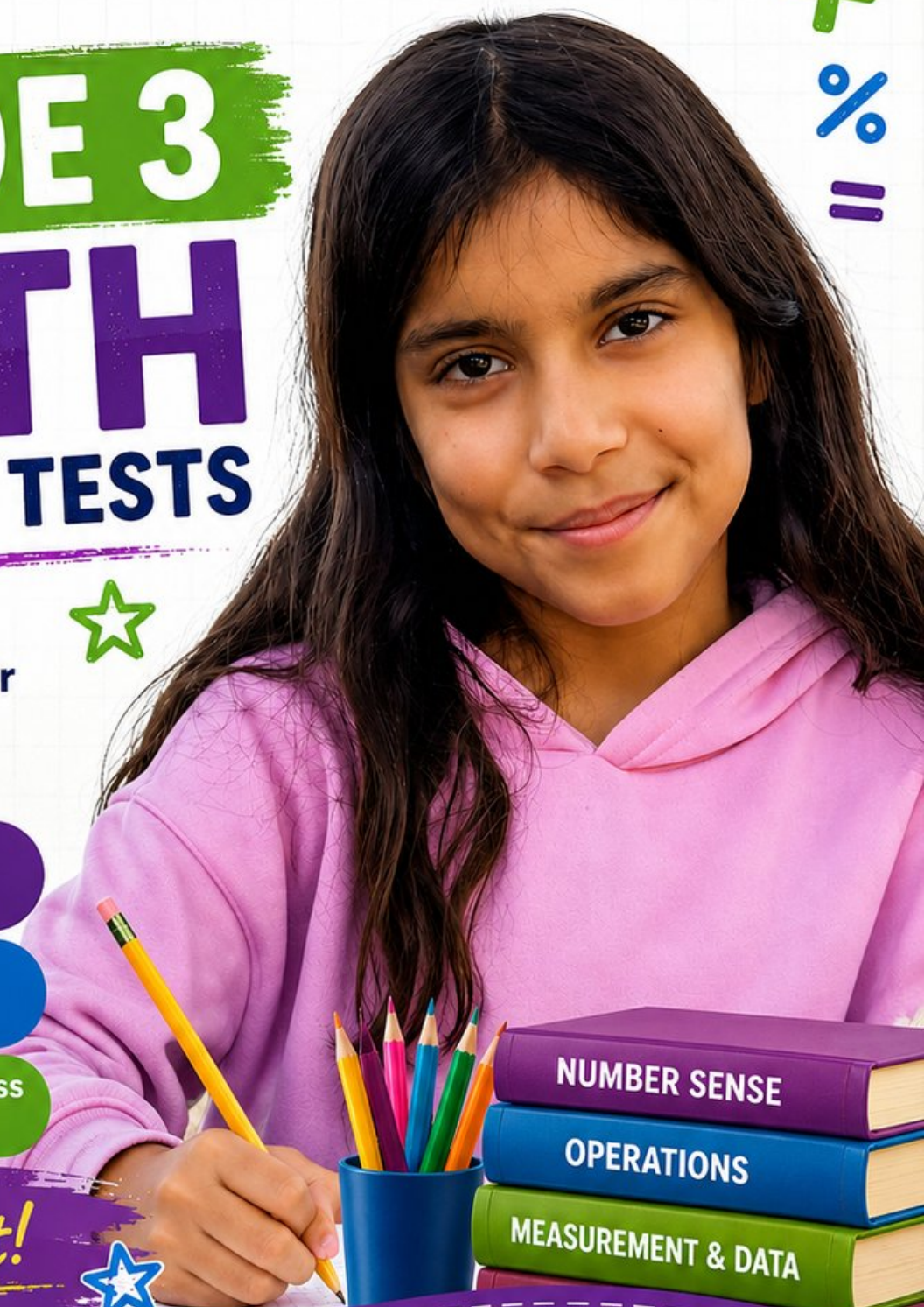


Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice

Be Ready.
Do Your Best!



3 Tennessee TCAP Grade 3 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 3 review, Tennessee TCAP strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome to the Tennessee Math Trail

Three tests, one trail, and a stronger Grade 3 thinker at the end



To the Grade 3 Trail Scout

This book is your practice trail for the Tennessee TCAP. You will multiply and divide, read graphs, work with fractions, measure time, find area, and explain your thinking – one trail marker at a time.

Some problems will feel quick, like a clear stretch of wide open trail. Some will ask you to slow down, draw, count, or try again. That slow part is where strong math grows. Every page gives your brain another chance to spot, choose, and build.

Spot

Read carefully and find what the problem is really asking.

Sketch

Use numbers, arrays, number lines, or labels to make your thinking visible.

Signal

Check that your answer makes sense before you wave the next question on.

Trail promise: I will read like a tracker, sketch like a planner, and check like a careful scout. I do not have to be perfect to keep moving forward.

How to Use This Book

A four-step trail plan that turns practice into progress

Step 1: Pack Your Pack

Read the Quick Review first.
Wake up the Grade 3 ideas you will need before you set foot on the trail.

Step 2: Hit the Trail

Take one full test.
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

Step 3: Campfire Check

Check answers honestly.
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

Step 4: Track Back

Fix a few mistakes.
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

A Three-Week Trail Plan

Week 1	Hike Test 1. Map what feels strong and what needs a second look.
Week 2	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
Week 3	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

Best trail habit: Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



Test Overview

What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the Tennessee TCAP asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shapes
- two-step word problems and explaining a solution path

What strong TCAP work looks like: the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.



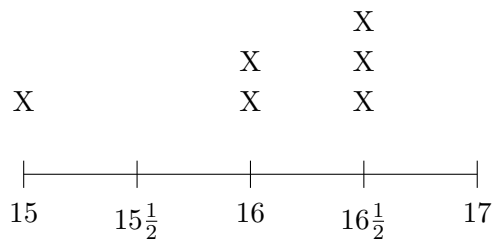
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4) Noah recorded bird wing spans in inches with halves: 15, $15\frac{1}{2}$, 16, $16\frac{1}{2}$, 17.



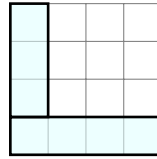
Which wing span is the mode?

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> A. 15 inches | <input type="checkbox"/> C. $16\frac{1}{2}$ inches |
| <input type="checkbox"/> B. 16 inches | <input type="checkbox"/> D. 17 inches |
- 5) The perimeter of a rectangle is 44 cm. If the width is 7 cm, what is the length?



- 6) Round 267 to the nearest 10.
- | | |
|---------------------------------|---------------------------------|
| <input type="checkbox"/> A. 260 | <input type="checkbox"/> C. 270 |
| <input type="checkbox"/> B. 267 | <input type="checkbox"/> D. 300 |
- 7) Two circles are identical. Circle X shows $\frac{3}{4}$ shaded gray. Circle Y shows $\frac{6}{8}$ shaded gray. Are the shaded parts the same size?
- | | |
|--|---|
| <input type="checkbox"/> A. They cannot be compared. | <input type="checkbox"/> C. Yes, they are equal. |
| <input type="checkbox"/> B. No, Circle Y is larger. | <input type="checkbox"/> D. No, Circle X is larger. |

- 8) This grid shows an L-shaped figure made of unit squares. Count all the unit squares to find the area.



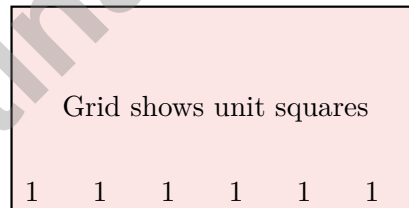
How many unit squares cover this L-shape?

- A. 4 sq units C. 8 sq units
 B. 7 sq units D. 12 sq units
- 9) Ava has 6 bags of marbles. Each bag has the same number of marbles. She has 42 marbles in all. How many marbles are in each bag?

$$6 \times \square = 42$$

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

10)



The rectangle above shows 6 unit squares across and 3 unit squares down. Which multiplication statement represents this rectangle's area?

- A. $6 + 3 = 9$ C. $3 + 3 + 3 + 3 + 3 + 3 = 18$
 B. $6 \times 3 = 18$ D. $9 \times 2 = 18$



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5) Find 6×4 .

6) Ava cut a pie into 3 equal pieces and ate 2 pieces. Lily cut her pie into 6 equal pieces and ate 4 pieces. Did they eat the same amount?

- A. Yes, they ate the same amount C. No, Lily ate more
 B. No, Ava ate more D. Cannot be determined

7) Round 325 to the nearest 100.

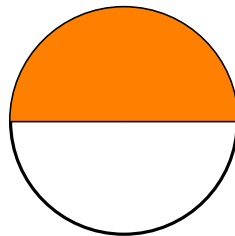
- A. 300 C. 325
 B. 320 D. 400

8) What number makes the equation true?

$$30 \div 5 = \square$$

- A. 5 C. 7
 B. 8 D. 6

9) Look at the circle divided into 2 equal parts. One part is shaded.



What is the unit fraction?

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

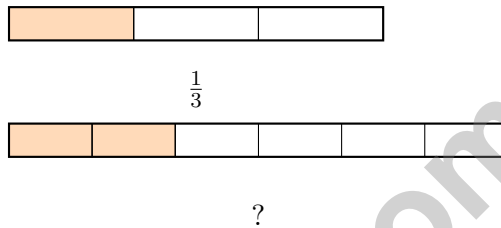


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- 6) A rectangle uses 5 unit squares in each row. If there are 7 rows, how many unit squares are used in all?



- 7) Sam eats 1 slice from a 3-slice pizza. Which fraction is equivalent to what he ate?



- | | |
|---|---|
| <input type="checkbox"/> A. $\frac{2}{6}$ | <input type="checkbox"/> C. $\frac{1}{4}$ |
| <input type="checkbox"/> B. $\frac{1}{2}$ | <input type="checkbox"/> D. $\frac{2}{3}$ |
- 8) Noah has $\frac{3}{1}$ cookies. How many whole cookies does he have?
- | | |
|-------------------------------|-------------------------------|
| <input type="checkbox"/> A. 1 | <input type="checkbox"/> C. 0 |
| <input type="checkbox"/> B. 6 | <input type="checkbox"/> D. 3 |
- 9) Ava has 3 bags of marbles. Each bag has 7 marbles. How many marbles does Ava have altogether?
- | | |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> A. 10 | <input type="checkbox"/> C. 28 |
| <input type="checkbox"/> B. 20 | <input type="checkbox"/> D. 21 |

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 builds stronger math habits.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice A is correct.** **(3.MD.A.2)** 250 mL is the smallest amount.
- The correct answer is $\frac{1}{6}$.** **(3.NF.A.1)** One of 6 equal parts is $\frac{1}{6}$.
- Choice B is correct.** **(3.MD.C.8)** Playground: $6 \times 5 = 30$ tiles. Real-world context.
- Choice C is correct.** **(3.MD.B.4)** The mode is the value with the most X's. At $16\frac{1}{2}$, there are 3 X's, which is more than any other value.
- The correct answer is 15 centimeters.** **(3.MD.C.8)** $44 = 2\ell + 2(7) = 2\ell + 14$, so $2\ell = 30$ and $\ell = 15$ cm.
- Choice C is correct.** **(3.NBT.A.1)** The ones digit is 7. Since $7 \geq 5$, round up: 267 rounds to 270.
- Choice C is correct.** **(3.NF.A.2)** $\frac{3}{4} = \frac{6}{8}$ because both represent three-fourths of their circles.
- Choice B is correct.** **(3.MD.C.6)** Count the bottom row: 4 squares. Count the left column above: 3 more squares. Total: $4 + 3 = 7$ unit squares.
- Choice D is correct.** **(3.OA.A.4)** Divide: $42 \div 6 = 7$ marbles per bag. Check: $6 \times 7 = 42$.
- Choice B is correct.** **(3.MD.C.8)** Representing area as a rectangular array: multiplying the number of unit squares across (6) by the number down (3) gives $6 \times 3 = 18$ square units. Choice A (9) is the sum; C (18) is correct but inefficient for Grade 3 (repeated addition); D (18) arrives at correct answer but uses wrong factors.
- Choice D is correct.** **(3.OA.D.8)** Step 1: Remove damaged: $80 - 20 = 60$ books. Step 2: Divide by shelves: $60 \div 4 = 15$ books per shelf.
- Choice D is correct.** **(3.OA.B.6)** The fact family for $7 \times 8 = 56$ includes both $56 \div 7 = 8$ and $56 \div 8 = 7$.
- Choice A is correct.** **(3.OA.A.2)** $10 \div 2 = 5$. The picture shows 10 items split into 2 equal groups of 5 each.
- Choices A and B are correct.** **(3.NBT.A.3)** $5 \times 70 = 350$ (multiply $5 \times 7 = 35$, add zero). $7 \times 50 = 350$ (multiply $7 \times 5 = 35$, add zero). C: $7 \times 30 = 210$. D: $5 \times 60 = 300$. E: $5 \times 50 = 250$. Choices A and B equal 350.
- Choice B is correct.** **(3.NF.A.2)** $\frac{2}{4} = \frac{1}{2}$, so $\frac{2}{4}$ and $\frac{1}{2}$ are the same point on the number line.
- Choice D is correct.** **(3.G.A.2)** Both parts are shaded, so it is $\frac{2}{2}$, which equals 1 whole. (A) is only one shaded part. (B) and (C) are not written with correct denominator 2.
- Choice D is correct.** **(3.OA.B.5)** $4 \times 5 = 20$ and $4 \times 2 = 8$, so $20 + 8 = 28$. Also $4 \times 7 = 28$.
- Choice D is correct.** **(3.OA.A.3)** Divide: $56 \div 8 = 7$ cartons.
- Choice C is correct.** **(3.NF.A.3)** $\frac{2}{3}$ and $\frac{4}{6}$ show the same shaded amount.
- Choice B is correct.** **(3.NF.A.2)** $\frac{7}{3} = 2\frac{1}{3} \approx 2.33$. This is between 2 and 3, closer to 2.
- Choice D is correct.** **(3.NBT.A.2)** Subtract: $456 - 132 = 324$. Ones: $6 - 2 = 4$. Tens: $5 - 3 = 2$. Hundreds: $4 - 1 = 3$.
- Choice B is correct.** **(3.G.A.2)** If one part is $\frac{1}{2}$, the rectangle is divided into 2 equal parts.
- Choice C is correct.** **(3.MD.C.6)** Count rows and columns: 4 units wide and 2 units tall equals $4 \times 2 = 8$ unit squares covering the rectangle with no gaps or overlaps.
- The correct answer is 4 right angles.** **(3.G.A.1)** A square has 4 right angles.
- Choice A is correct.** **(3.MD.D)** Top: $2 \times 4 = 8$ sq units. Bottom left: $3 \times 2 = 6$ sq units. Bottom right: $3 \times 2 = 6$ sq units. Total: $8 + 6 + 6 = 20$ sq units.
- Choice A is correct.** **(3.MD.C.5)** Area is the amount of space inside a flat shape, measured in square units.
- Choice D is correct.** **(3.OA.D.9)** The marks show 0, 10, 20, 30, 40, 50. Each jump is 10 units.
- Choice C is correct.** **(3.NBT.A.1)** $5 : 42 + 38 \text{ min} = 5 : 42 + 18 \text{ min} + 20 \text{ min} = 6 : 00 + 20 \text{ min} = 6 : 20 \text{ PM}$.
- Choice D is correct.** **(3.OA.A.1)** Three bags with 6 marbles each means 3 groups of 6. So $3 \times 6 = 6 + 6 + 6 = 18$.
- Choice B is correct.** **(3.NF.A.3)** Visual reasoning: same numerator (2), so both take 2 pieces. But $\frac{2}{3}$ divides the whole into 3 parts (each third is large), while $\frac{2}{6}$ divides into 6 parts (each sixth is small). Comparing shaded amounts: 2 large pieces $>$ 2 small pieces, so $\frac{2}{3} > \frac{2}{6}$.

Hi, Math Detective!

◇ You did such a great job! You finished 3 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

Testinar.com

3 GRADE 3 MATH PRACTICE TESTS

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