

3

Vermont VTCAP

GRADE 3

MATH PRACTICE TESTS

Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



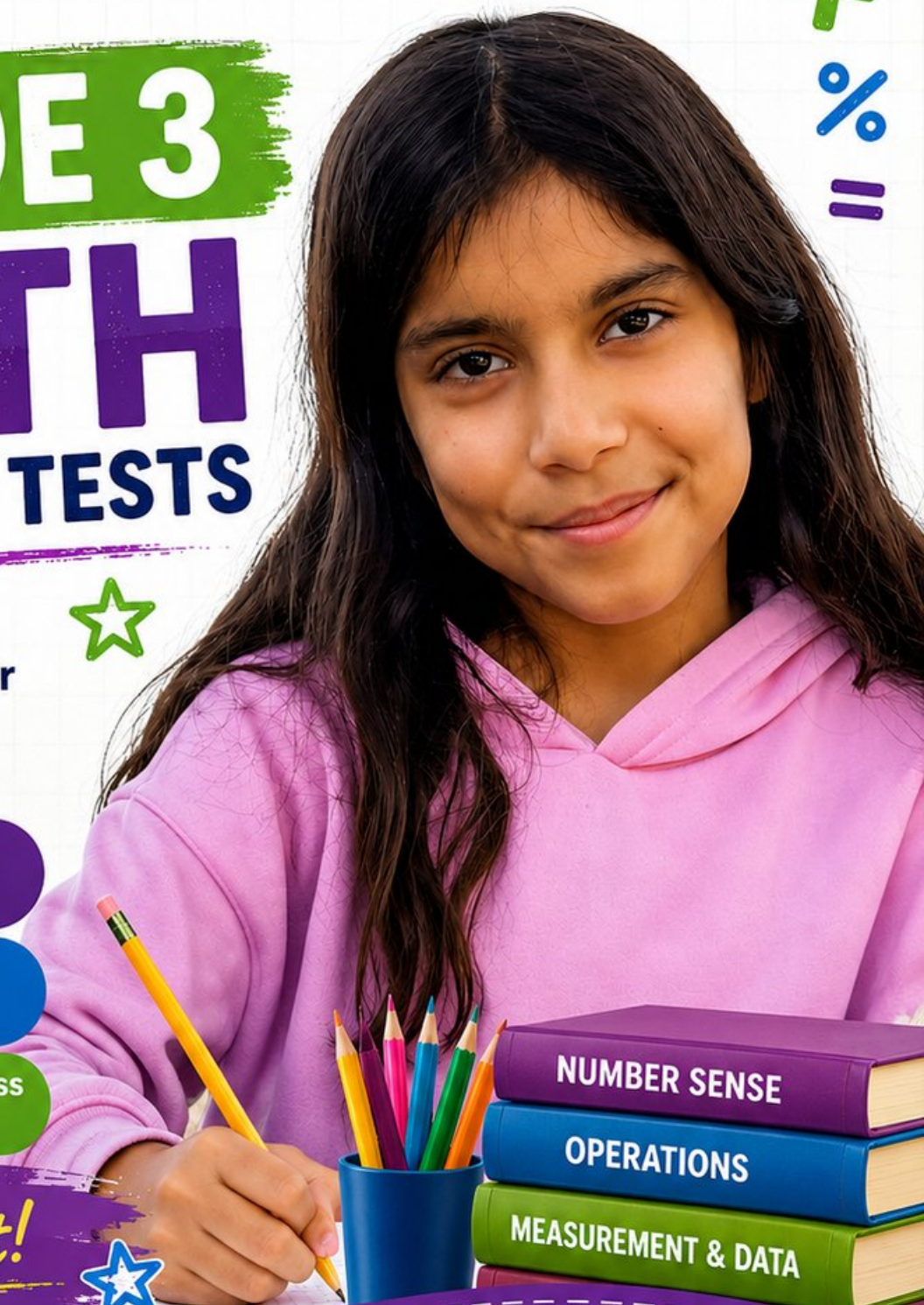
Build Confidence
with Targeted Practice



Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice



Be Ready.
Do Your Best!



3 Vermont VTCAP 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, Vermont VTCAP 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 Vermont 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 Vermont VTCAP. 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 Vermont VTCAP 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 VTCAP 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.



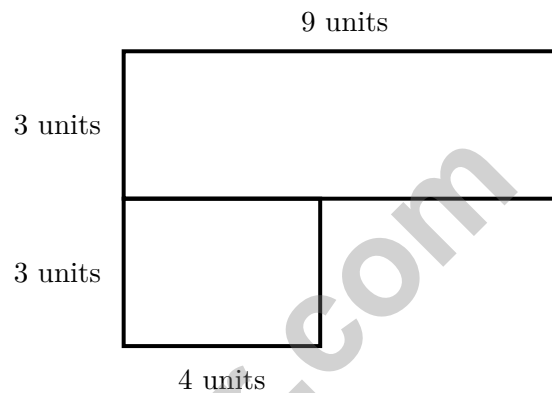
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- 1) A park is shaped like a rectangle. It is 10 feet long and 8 feet wide. How many square feet is the park?
- A. 18 square feet C. 80 square feet
 B. 36 square feet D. 60 square feet
- 2) An L-shaped parking lot is shown. Part 1 is 9 units by 3 units. Part 2 is 4 units by 3 units. What is the total area?

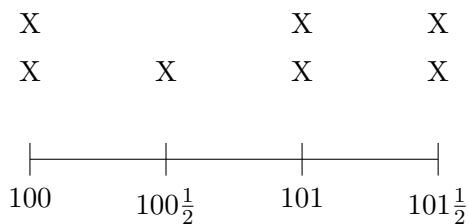


- A. 39 sq units C. 12 sq units
 B. 27 sq units D. 108 sq units
- 3) Find $30 \div 5$.



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- 4) A line plot shows notebook page counts: $100, 100\frac{1}{2}, 101, 101\frac{1}{2}$.

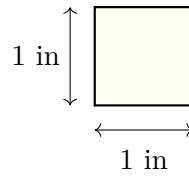


If we remove 1 notebook with 100 pages, how many notebooks remain?

- A. 5
 C. 7
 B. 6
 D. 8
- 5) Sam marks two number lines. On line 1, he marks $\frac{2}{4}$. On line 2, he marks $\frac{3}{6}$. Are his marks at the same place?
- A. The lines are not the same length.
 C. No, $\frac{2}{4}$ is further right.
 B. No, $\frac{3}{6}$ is further right.
 D. Yes, same place.
- 6) Counting unit fractions, what do $\frac{1}{4}, \frac{1}{4},$ and $\frac{1}{4}$ make together?
- A. $\frac{1}{12}$
 C. $\frac{3}{1}$
 B. $\frac{3}{4}$
 D. $\frac{1}{4}$
- 7) Sam has a rectangular garden that is 12 units long and 2 units wide. What is the area of the garden?
- A. 14 sq units
 C. 36 sq units
 B. 24 sq units
 D. 48 sq units

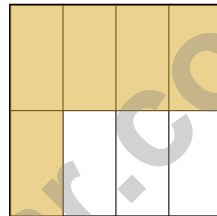


8) Which measurement describes a unit square in inches?



- A. Side length 2 inches, area 2 square inches
 C. Side length 1 inch, area 2 square inches
 B. Side length 1 inch, area 1 square inch
 D. Side length 2 inches, area 4 square inches

9) A square is divided into 8 equal parts. Eli colors 5 of them. What fraction of the square is NOT colored?



- A. $\frac{1}{8}$ C. $\frac{5}{8}$
 B. $\frac{3}{8}$ D. $\frac{8}{8}$

10) A large rectangle with total area 56 is split into two smaller rectangles. One is 7×6 with area 42. Using the distributive property with the shared dimension of 7, what is the area of the second rectangle?

- A. 14 C. 7
 B. 42 D. 8



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1) Which pair of numbers always has an even product?

- A. Two odd numbers C. Two odd numbers or two even numbers
 B. An odd number and any other whole number D. An even number and any other whole number

2) Find $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$.

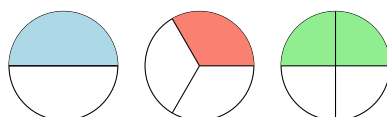
3) Eli ate $\frac{3}{3}$ of a granola bar. Mia ate $\frac{2}{3}$ of a granola bar of the same size. Who ate more?

- A. Eli C. They ate the same amount
 B. Mia D. Cannot compare the fractions

4) A picture graph shows books read in a month. Each book icon is 2 books. Raj read 4 icons. How many books did Raj read?

- A. 6 C. 10
 B. 8 D. 12

5) Which two circles show equivalent fractions?



Circle 1: $\frac{1}{2}$ Circle 2: $\frac{1}{3}$ Circle 3: $\frac{2}{4}$

- A. Circles 1 and 2 C. Circles 1 and 3
 B. Circles 2 and 3 D. All three circles



6) Which number rounds to 400 when rounded to the nearest 100?

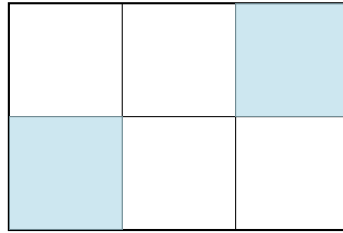
A. 349

C. 449

B. 345

D. 451

7) A rectangle is divided into 6 equal parts with 2 shaded. What fraction is NOT shaded?



A. $\frac{2}{6}$

C. $\frac{1}{6}$

B. $\frac{4}{6}$

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

8) Look at the number line showing elapsed time.



What is the elapsed time from 2 : 35 PM to 3 : 05 PM?

A. 25 minutes

C. 35 minutes

B. 30 minutes

D. 45 minutes

9) A city library has some books. After donating 156 books, it has 489 books left. How many books did the library have at the start?

A. 645

C. 646

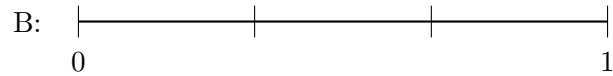
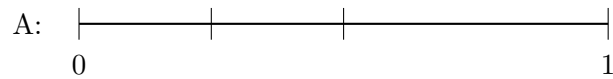
B. 635

D. 636



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1) Which number line correctly divides from 0 to 1 into 3 equal parts?



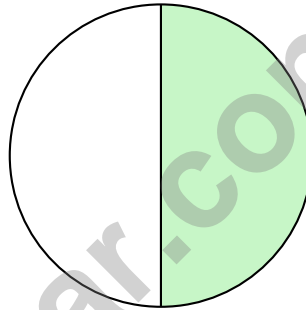
A. Option A

C. Neither

B. Option B

D. Both

2) Here is a circle divided into 2 equal parts.



Each part of the circle is what fraction of the whole circle?

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

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

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

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

3) Which number sentence shows the distributive property?

A. $7 \times 4 = 28$

C. $4 \times 7 = 7 \times 4$

B. $(3 \times 2) \times 5 = 3 \times (2 \times 5)$

D. $7 \times (5 + 2) = 7 \times 5 + 7 \times 2$



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4) Sofia buys packages of toy blocks. Each package has 20 blocks. She buys 6 packages. How many blocks does she have?

A. 26

B. 62

C. 120

D. 200

5) A square room has sides of 9 units. How many unit square floor tiles are needed to cover it?

A. 36 tiles

B. 72 tiles

C. 18 tiles

D. 81 tiles

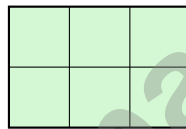
6) A rope is divided into 8 equal sections. What unit fraction describes one section?

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

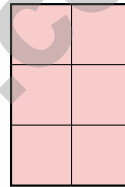
B. $\frac{8}{1}$

C. $\frac{2}{8}$

D. $\frac{1}{9}$



Shape 1



Shape 2

7)

Shape 1 has an area of 6 square units. Shape 2 has an area of 6 square units. Which statement is correct?

A. Shape 1 is larger

B. Shape 2 is larger

C. Both shapes have the same area

D. Shape 1 has no area



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

- 1) **Choice C is correct.** **(3.MD.C.5)** Multiply length by width: $10 \times 8 = 80$ square feet.
- 2) **Choice A is correct.** **(3.MD.C.7d)** Part 1: $9 \times 3 = 27$ sq units. Part 2: $4 \times 3 = 12$ sq units. Total: $27 + 12 = 39$ sq units.
- 3) **The correct answer is 6.** **(3.OA.A.2)** $30 \div 5 = 6$.
- 4) **Choice B is correct.** **(3.MD.B.4)** Total: $2 + 1 + 2 + 2 = 7$ notebooks. Remove 1 with 100 pages: $7 - 1 = 6$ remain.
- 5) **Choice D is correct.** **(3.NF.A.3a)** $\frac{2}{4} = \frac{3}{6} = \frac{1}{2}$. Both mark the halfway point on their respective number lines.
- 6) **Choice B is correct.** **(3.NF.A.1)** When you add three unit fractions of $\frac{1}{4}$, you get $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$.
- 7) **Choice B is correct.** **(3.MD.C.5b)** $12 \times 2 = 24$ square units.
- 8) **Choice B is correct.** **(3.MD.C.5a)** A unit square always has a side length of 1 unit and area of 1 square unit, so 1 inch by 1 inch gives area 1 square inch.
- 9) **Choice B is correct.** **(3.G.A.2)** If 5 out of 8 parts are colored, then $8 - 5 = 3$ parts are not colored, which is $\frac{3}{8}$.
- 10) **Choice A is correct.** **(3.MD.C.7c)** Total area is 56. First rectangle is 42. Second is $56 - 42 = 14$, which is 7×2 (so width is 2).
- 11) **Choice A is correct.** **(3.NBT.A.2)** Ones: $0 - 3$ requires regrouping, so $10 - 3 = 7$. Tens: $9 - 4 = 5$ (after regrouping). Hundreds: $4 - 2 = 2$ (after regrouping). Answer: 257.
- 12) **Choice B is correct.** **(3.NF.A.3d)** Same numerator: sixths are bigger pieces than eighths. Two sixths is greater than two eighths.
- 13) **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 $5 \times 2 = 10$.
- 14) **Choices A and C are correct.** **(3.OA.A.3)** Choices A and C involve finding a total from equal groups. B, D, and E involve subtraction or addition of separate quantities.
- 15) **Choice C is correct.** **(3.MD.C.6)** $6 \times 5 = 30$ unit squares.
- 16) **Choice B is correct.** **(3.MD.C.7a)** 4 rows \times 8 columns = $4 \times 8 = 32$ tiles. Reverse order from typical.
- 17) **Choice A is correct.** **(3.OA.D.8)** Step 1: Team A total: $4 + 5 = 9$ goals. Step 2: How many more than Team B: $9 - 6 = 3$ more goals. Choices A and B both work (parentheses clarify order), but A is clearer.
- 18) **The correct answer is 9.** **(3.NF.A.2b)** From 0 to 3, there are 3 whole units. Each unit has 3 thirds, so $3 \times 3 = 9$ thirds total, or $\frac{9}{3} = 3$.
- 19) **Choice D is correct.** **(3.MD.C.7b)** Area = length \times width = $5 \times 2 = 10$ square centimeters.
- 20) **Choice D is correct.** **(3.OA.C.7)** 5 rows with 6 chairs each: $5 \times 6 = 30$.
- 21) **Choice C is correct.** **(3.MD.C.7)** A square is a rectangle with equal sides. Area = $4 \times 4 = 16$ square cm.
- 22) **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.
- 23) **Choice C is correct.** **(3.MD.A.1)** $7 : 29 + 1$ hour = $8 : 29$. Then $8 : 29 + 16$ min = $8 : 45$ AM.
- 24) **The correct answer is $\frac{2}{4}$.** **(3.NF.A.3)** $\frac{2}{4}$ shows the same amount as $\frac{1}{2}$.
- 25) **Choice D is correct.** **(3.OA.B.6)** The fact family for $7 \times 8 = 56$ includes both $56 \div 7 = 8$ and $56 \div 8 = 7$.
- 26) **Choice D is correct.** **(3.OA.B.5)** 4 boxes with 5 markers in each is $4 \times 5 = 20$ markers total.
- 27) **Choice B is correct.** **(3.G.A.1)** Both squares and rhombuses have 4 sides that are all equal in length. Squares also have 4 right angles, but rhombuses do not necessarily have them.
- 28) **Choice B is correct.** **(3.MD.A.2)** 8000 mL is more than 6000 mL. So Fountain B holds less.
- 29) **Choice D is correct.** **(3.OA.A.4)** Divide: $54 \div 6 = 9$. Each part is 9. Check: $6 \times 9 = 54$.
- 30) **Choice B is correct.** **(3.NF.A.2)** Reading left to right on the number line: first tick ($\frac{1}{6}$), third tick ($\frac{3}{6}$), fifth tick ($\frac{5}{6}$). Least to greatest.

Practice Test 2 Answers and Explanations

Hi, Math Builder!

◇ Through 3 practice tests, you built your math house brick by brick. The walls are strong. The roof is on. You are ready for anything test day brings. ◇

★ **Builders know:** good plans make strong houses. You learned to plan, then build. That helps with any problem. ★

Builder's Tools

- **Foundation:** ROCK SOLID. Math facts are in place.
- **Frame:** STRONG. You can break problems into parts.
- **Walls:** TIDY. Your work is neat and clear.
- **Roof:** DONE. You always answer the question.

Builder tip: on test day, build each answer like a tiny house. Read first. Plan next. Do the math. Then check!

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

Jay Daie

Your Math Builder

Testinar.com

3 GRADE 3 MATH PRACTICE TESTS

Practice Today. Succeed Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!

What's Inside?



Standards-Aligned Practice

Questions designed to cover essential Grade 3 math standards.



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Real-World Applications

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Track improvement and build confidence with every test.



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Strengthen understanding and feel prepared for test day.

COVERS ALL ESSENTIAL TOPICS

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis
- ✓ And More!



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PRACTICE. PREPARE. SUCCEED.