

7

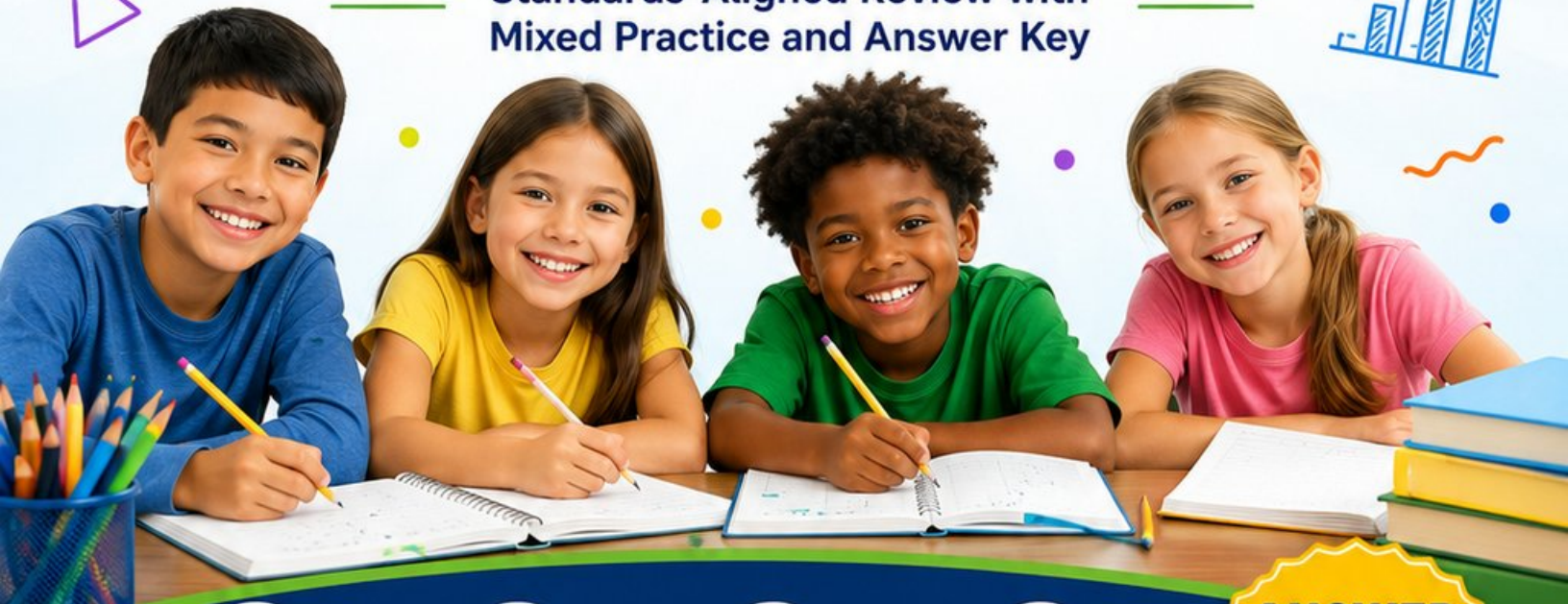
Vermont

VT CAP

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

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



7 Full-Length
Practice Tests



Standards-
Aligned



Build Confidence
and Skills



Mixed Question
Types

**ANSWER
KEY**

INCLUDED

7 Vermont VTCAP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven complete 30-question Grade 4 practice rounds for VTCAP, built around green hills, maple paths, and careful unit labels, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Welcome, Vermont Math Explorer!

Seven steady rounds on the Green Mountain math route

This book gives you seven full Grade 4 practice tests for VTCAP. Each round uses green hills, maple paths, and careful unit labels to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Vermont 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 Vermont VTCAP 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 Green Mountain 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?

Seven tests, 210 questions, and a full VTCAP 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 5–7	Stamina rounds for mixed review, neat work, and flexible strategies.
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.



Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	27
★ Practice Test 3	_____	38
★ Practice Test 4	_____	49
★ Practice Test 5	_____	61
★ Practice Test 6	_____	72
★ Practice Test 7	_____	84
Practice Test Answer Keys	_____	94
Practice Test Answers and Explanations	_____	99

1) An angle is split into two smaller angles. One measures 30° and the other measures 45° . What is the measure of the whole angle?

A. 15°

C. 75°

B. 65°

D. 90°

2) A farmer plants 5 rows of vegetables. Each row has 15 plants. How many plants does the farmer plant in total?

3) A baker has $\frac{11}{8}$ pounds of sugar. Which shows one way to decompose this?

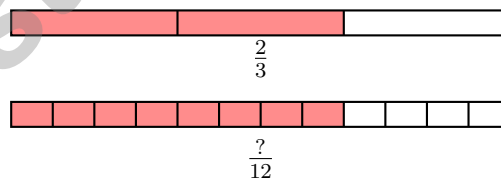
A. $\frac{8}{8} + \frac{3}{8}$

C. $\frac{7}{8} + \frac{3}{8}$

B. $\frac{5}{8} + \frac{4}{8} + \frac{1}{8}$

D. $\frac{6}{8} + \frac{4}{8}$

4) Look at the two fraction strips. Both are the same length.



What number replaces the question mark?

A. 4

C. 8

B. 6

D. 10



Scan me!
For more practice
& answers

5) Add: $5,234 + 2,145 = ?$

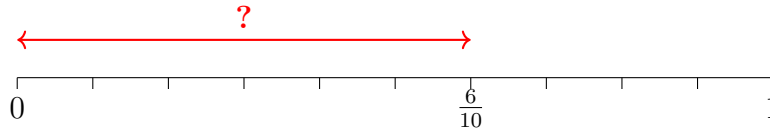
A. 7,279

C. 7,479

B. 8,379

D. 7,379

6) A number line shows equal hops from 0 to $\frac{6}{10}$. How many hops of $\frac{1}{10}$ are needed?



A. 3 hops

C. 6 hops

B. 4 hops

D. 10 hops

7) Zoe collects 9 stickers. Kyle collects 2 times as many stickers. How many stickers does Kyle collect?

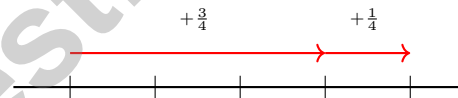
A. 7

C. 9

B. 11

D. 18

8) Which number line shows $\frac{3}{4} + \frac{1}{4} = 1$?



A. Starts at 0, hops to $\frac{1}{2}$

C. Starts at $\frac{1}{4}$, hops to 1

B. Starts at 0, hops to $\frac{3}{4}$, then to 1

D. Starts at $\frac{1}{2}$, hops to 1



9) A pet store has 14 hamsters. Another pet store has 3 times as many hamsters. How many hamsters does the other store have?

A. 17

C. 56

B. 30

D. 42

10) All the factors of 24 are:

A. 1, 2, 3, 4, 8, 12, 24

C. 2, 3, 4, 6, 8, 12, 24

B. 1, 2, 4, 6, 8, 12, 24

D. 1, 2, 3, 4, 6, 8, 12, 24

11) Which pattern does NOT show only multiples of 5?

A. 5, 10, 15, 20, 25

C. 10, 20, 30, 40, 50

B. 5, 15, 25, 35, 45

D. 7, 14, 21, 28, 35

12) An isosceles trapezoid has how many lines of symmetry?

A. 0

C. 2

B. 1

D. 4

13) If you turn $\frac{1}{12}$ of the way around a circle, how many degrees do you turn?

A. 20°

C. 45°

B. 30°

D. 60°

14) How many sides does an angle have?



Scan me!
For more practice
& answers

1) An isosceles triangle (not equilateral) has how many lines of symmetry?

A. 0

C. 2

B. 1

D. 3

2) A protractor shows that two adjacent angles measure 63° and 117° . What is their sum?

A. 54°

C. 180°

B. 117°

D. 200°

3) A store has 12 blue shirts in stock. This is 4 times as many as the number of red shirts. How many red shirts does the store have?

4) What is $5 \times \frac{1}{6}$?

A. $\frac{1}{30}$

C. $\frac{5}{6}$

B. $\frac{6}{5}$

D. $\frac{5}{30}$

5) A bottle of shampoo contains 5 liters. How many milliliters is this?

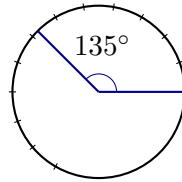
A. 500

C. 50,000

B. 5,000

D. 500,000





6)

This obtuse angle measures 135 degrees. How many one-degree angle units form this angle?

- A. 67.5 one-degree angles C. 270 one-degree angles
 B. 135 one-degree angles D. 13.5 one-degree angles

7) The fraction bar below shows $\frac{1}{4} + \frac{2}{4}$. Which description matches it?

Choice A

- A. Shows 3 shaded parts out of 4 C. Shows 3 shaded parts out of 3
 B. Shows 2 shaded parts out of 8 D. Shows 1 shaded part out of 4

8) $\frac{5}{4}$ is the same as $1\frac{1}{4}$. Which shows this decomposition?

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

9) Which problem has an answer of $4\frac{1}{2}$?

- A. $2\frac{1}{2} + 2$ C. $3\frac{1}{2} + 1\frac{1}{2}$
 B. $5\frac{1}{2} - 2\frac{1}{2}$ D. $6 - 2\frac{1}{2}$



Scan me!
For more practice
& answers

1) Write $\frac{9}{10}$ as a decimal.

2) Line segment PQ and line segment QP are:

- A. Different segments
 B. The same segment
 C. Perpendicular
 D. Parallel

3) What is $\frac{6}{10} - \frac{1}{10}$?

- A. $\frac{5}{10}$
 B. $\frac{7}{10}$
 C. $\frac{5}{20}$
 D. $\frac{1}{10}$

4) A line plot shows pencil weights in eighths of an ounce. There are 1 pencil at $\frac{1}{8}$, 3 pencils at $\frac{2}{8}$, and 2 pencils at $\frac{3}{8}$. What is the total number of pencils?

- A. 3
 B. 4
 C. 5
 D. 6

5) What is $10,000 - 5,678$?

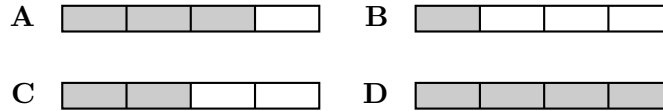
- A. 4,322
 B. 4,332
 C. 4,422
 D. 5,322



6) Zoe ate $\frac{2}{10}$ of a pizza and her brother ate $\frac{1}{5}$ of the same pizza. Who ate more?

- A. Zoe ate more
 B. Her brother ate more
 C. They ate the same amount
 D. Cannot determine

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



- A. Picture A
 B. Picture B
 C. Picture C
 D. Picture D

8) A construction company pours 32 sections of concrete. Each section uses 24 bags of cement. How many bags of cement are needed?

- A. 696 bags
 B. 920 bags
 C. 850 bags
 D. 768 bags

9) Is 25 prime or composite?

- A. Prime
 B. Both
 C. Neither
 D. Composite

10) A triangle has angles measuring 45 degrees, 45 degrees, and 90 degrees. What type of triangle is it?

- A. Acute triangle
 B. Right triangle
 C. Obtuse triangle
 D. Equilateral triangle



Scan me!
For more practice
& answers

Practice Test Answer Keys

How to use this section with a Grade 4 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.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice C is correct.** (4.MD.C.7) When you split an angle into smaller parts, add them to find the whole: $30^\circ + 45^\circ = 75^\circ$.
- The correct answer is 75.** (4.OA.A.3) Equal rows means multiply: 5 rows \times 15 plants = **75** plants.
- Choice A is correct.** (4.NF.B.3) The baker has $\frac{11}{8}$ pounds. One whole is $\frac{8}{8}$, leaving $11 - 8 = 3$ more eighths. So: $\frac{8}{8} + \frac{3}{8} = \frac{11}{8}$ ✓.
- Choice C is correct.** (4.NF.A.1) The denominator changes from 3 to 12. What times 3 makes 12? $3 \times 4 = 12$. So multiply the numerator by 4: $\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$.
- Choice D is correct.** (4.NBT.B.4) Add from right to left: ones $4 + 5 = 9$, tens $3 + 4 = 7$, hundreds $2 + 1 = 3$, thousands $5 + 2 = 7$. The sum is **7,379**.
- Choice C is correct.** (4.NF.B.3) To reach $\frac{6}{10}$ with hops of $\frac{1}{10}$, we count: each hop is one unit fraction, and we need 6 copies to equal $\frac{6}{10}$. So **6** hops gets us there!
- Choice D is correct.** (4.OA.A.1) “2 times as many” = multiply by 2. Kyle collects $9 \times 2 = 18$ stickers.
- Choice B is correct.** (4.NF.B.3) Starting at 0, the first hop goes right by $\frac{3}{4}$. The second hop adds $\frac{1}{4}$ more, landing exactly at 1. That’s $\frac{3}{4} + \frac{1}{4} = 1$.
- Choice D is correct.** (4.OA.A.2) “3 times as many” is a multiplication signal: $3 \times 14 = 42$ hamsters.
- Choice D is correct.** (4.OA.B.4) Walk through the factor pairs: 1×24 , 2×12 , 3×8 , 4×6 . Combine both sides of each pair: **1, 2, 3, 4, 6, 8, 12, 24**. *Tip:* the pairs “meet in the middle”—once they start repeating, you’ve found them all.
- Choice D is correct.** (4.OA.B.4) Multiples of 5 end in 0 or 5. Patterns A, C, D all do. But Pattern B (7, 14, 21, 28, 35) has 7, 14, 21, 28—not multiples of 5.
- Choice B is correct.** (4.G.A.3) An isosceles trapezoid has two equal slanted legs and a vertical line of symmetry straight down the middle. This divides it so both sides match perfectly. The answer is **1** line of symmetry.
- Choice B is correct.** (4.MD.C.5) One-twelfth of the circle is $\frac{1}{12} \times 360^\circ = 30^\circ$, which matches the spacing between hour marks on a clock.
- The correct answer is 2.** (4.MD.C.5) An angle is formed by **2** rays.
- Choice D is correct.** (4.NBT.A.1) Break 5,803 apart by place: thousands = $5 \times 1,000 = 5,000$, hundreds = $8 \times 100 = 800$, tens = $0 \times 10 = 0$ (we can drop this), ones = $3 \times 1 = 3$. Adding the non-zero parts gives $5,000 + 800 + 3 = 5,803$, which matches choice **B**. ✓
- Choice B is correct.** (4.MD.C.5) When an angle measures 55° , it is made of **55** one-degree angles.
- The correct answer is A, C.** (4.NF.B.3) Let’s check each statement. Step 1 (for A and C): Add the amounts: $\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$ cups total (A is correct). Find the difference: $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$ cup more sugar (C is correct). Step 2 (why others fail): B claims $\frac{5}{8}$, but we got $\frac{5}{4}$. D claims $\frac{1}{8}$, but the difference is $\frac{1}{4}$. E compares the ratio 2:3, which is not half.
- Choice D is correct.** (4.NBT.A.2) Reading the chart: ten-thousands: 6, thousands: 5, hundreds: 2, tens: 0, ones: 9 \rightarrow 65,209 ✓
- Choice D is correct.** (4.NF.B.4) Picture D shows two fraction bars: the first has all 4 fourths shaded, the second has 2 fourths shaded. In total we have $4 + 2 = 6$ copies of $\frac{1}{4}$, which equals $\frac{6}{4}$.
- Choice D is correct.** (4.G.A.1) Two lines that cross perpendicularly create four separate angles at the corner, and each one is a perfect right angle (90°).
- Choice A is correct.** (4.MD.C.6) This angle measures about 70° . When we round to the nearest 10 degrees, it stays at 70° because 70° is right at the mark. The answer is **70** degrees.
- Choice B is correct.** (4.NF.B.3) Add the wholes: $2 + 1 = 3$. Add the fractions: $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$. The total is **$3\frac{2}{3}$** cups.
- Choice B is correct.** (4.NF.B.4) Three marbles, each weighing $\frac{2}{6}$ ounce, give us $3 \times \frac{2}{6} = \frac{6}{6} = 1$ ounce.
- Choice C is correct.** (4.MD.B.4) Add up all the X marks: $2 + 3 + 1 = 6$ strings in total.
- Choice C is correct.** (4.NF.C.5) 0.7 is zero point seven, which is read as seven tenths. That means $0.7 = \frac{7}{10}$.



Scan me!
For more practice
& answers

Inventor's Workshop Note

Hi, Math Inventor!

◇ 7 practice tests. 7 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.

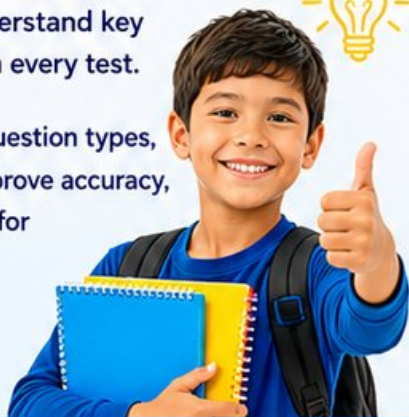
Jay Daie

Your Math Inventor

7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

With 7 full-length practice tests, a wide range of question types, and detailed answer explanations, students will improve accuracy, strengthen problem-solving abilities, and prepare for classroom success and beyond.



PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Confidence Building
- ✓ Skill Reinforcement

★ CONFIDENCE IN MATH.
SUCCESS FOR LIFE.

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Test Confidence

Become familiar with test-style questions and formats.



Track Progress

Measure growth across multiple practice tests.



Academic Success

Strengthen skills needed for future learning.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ And More!



Visit testinar.com/math4

for additional Grade 4 math resources and practice materials.

MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



7 Full-Length Practice Tests



Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included