

9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

Vermont VTCAP

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**9 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
BUILD SKILLS & CONFIDENCE**



**ANSWER KEY
FOR ALL TESTS**



$$\frac{3}{4} + \frac{1}{4} = 1$$



$$725 - 358 = 367$$

PREPARE
PRACTICE
SUCCEED
PERFORM

**PRACTICE TODAY.
SUCCEED TOMORROW.**

9 Vermont VTCAP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine 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



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Welcome, Vermont Math Explorer!

Nine steady rounds on the Green Mountain math route

This book gives you nine 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?

Nine tests, 270 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 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

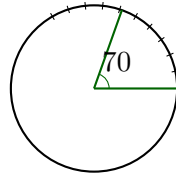
The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	27
★ Practice Test 3	_____	38
★ Practice Test 4	_____	50
★ Practice Test 5	_____	61
★ Practice Test 6	_____	72
★ Practice Test 7	_____	83
★ Practice Test 8	_____	95
★ Practice Test 9	_____	106
Practice Test Answer Keys	_____	117
Practice Test Answers and Explanations	_____	123

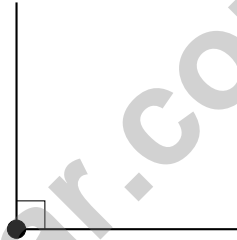


1)

The angle shown measures 70 degrees. How many one-degree angles is this?

- A. 35 one-degree angles C. 140 one-degree angles
 B. 70 one-degree angles D. 7 one-degree angles

2) Which of these angles is a right angle?



- A. No, it is acute C. Yes, it has a square corner
 B. Yes, it has a small opening D. No, it is straight

3) Complete the number sentence: $\frac{3}{5} = \frac{?}{15}$ 

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4) Estimate by rounding to the nearest thousand: $26,345 - 8,912 = ?$

- A. About 18,000 C. About 19,000
 B. About 20,000 D. About 17,000

5) Use the place-value chart to find the decimal.

Tenths	Hundredths
9	2

- A. 0.92 C. 0.029
 B. 9.2 D. 92.0

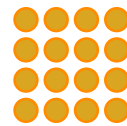
6) Maya has 2 hours 30 minutes to complete a project. She works for 1 hour 45 minutes. How much time does she have left?

- A. 45 minutes C. 1 hour
 B. 75 minutes D. 1 hour 15 minutes

7) Look at the two groups. How many times as many objects are in Group X as in Group Y?

Group Y:


Group X:



- A. 2 times C. 8 times
 B. 6 times D. 4 times

8) Which number is a factor of 16?

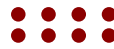
A. 3

C. 5

B. 6

D. 4

Alex



Claire

9)

Alex has 4 marbles. Claire has 2 times as many marbles as Alex. How many marbles does Claire have?

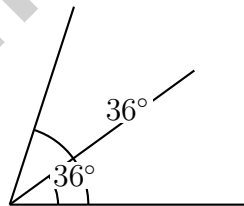
A. 6

C. 10

B. 12

D. 8

10) A ramp is built at an angle. Half of the ramp's total angle is 36° . What is the measure of the entire ramp's angle?



A. 36°

C. 18°

B. 72°

D. 90°



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1) A book club buys 9 bundles of books. Each bundle has 15 books. If they distribute all books to 5 libraries equally, how many books does each library receive?

A. 24 books

C. 30 books

B. 25 books

D. 27 books

2) Swap the digits 4 and 7 in 4,723. By how much does the number increase?

3) Which list is ordered correctly from least to greatest?

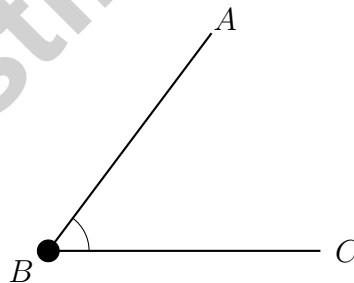
A. 0.7, 0.67, 0.77, 0.6

C. 0.77, 0.7, 0.67, 0.6

B. 0.6, 0.67, 0.7, 0.77

D. 0.67, 0.6, 0.7, 0.77

4) The angle below is named $\angle ABC$. Where is point B ?



A. At point A

C. At point C

B. At the vertex

D. In the exterior



5) A farmer has 7 chickens. She has 5 times as many ducks. How many more ducks than chickens?

A. 12

C. 5

B. 35

D. 28

6) Which of these is NOT equivalent to 0.3?

A. $\frac{3}{10}$

C. $\frac{30}{100}$

B. 0.30

D. $\frac{3}{100}$

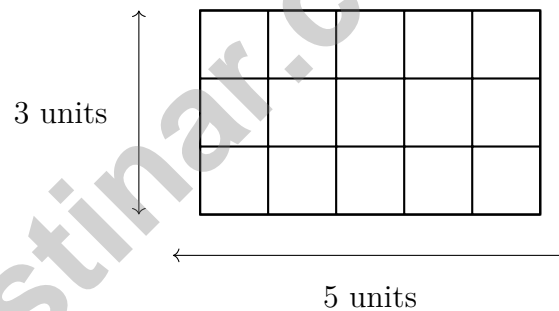
7) Which decomposition of $\frac{9}{12}$ has three equal parts?

A. $\frac{3}{12} + \frac{3}{12} + \frac{3}{12}$

C. $\frac{1}{12} + \frac{4}{12} + \frac{4}{12}$

B. $\frac{2}{12} + \frac{3}{12} + \frac{4}{12}$

D. $\frac{5}{12} + \frac{2}{12} + \frac{2}{12}$



8)

What is the perimeter of the rectangle shown?

A. 16 units

C. 8 units

B. 15 units

D. 30 units



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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.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice B is correct.** (4.MD.C.5) The angle shown measures 70° , made from **70** one-degree angles.
- Choice C is correct.** (4.MD.C.5) A right angle has a perfect square corner, like the corner of a piece of paper.
- The correct answer is 9.** (4.NF.A.1) The denominator changes from 5 to 15. What times 5 makes 15? $5 \times 3 = 15$. So multiply the numerator by 3: $3 \times 3 = 9$.
- Choice D is correct.** (4.NBT.B.4) Round each number to the nearest thousand: $26,345 \approx 26,000$ and $8,912 \approx 9,000$. Subtract: $26,000 - 9,000 = \mathbf{17,000}$.
- Choice A is correct.** (4.NF.C.5) The place-value chart displays 9 tenths and 2 hundredths. Combine them: $0.9 + 0.02 = 0.92$.
- Choice A is correct.** (4.MD.A.2) Convert to minutes: 2 hours 30 minutes = 150 minutes. She works 1 hour 45 minutes = 105 minutes. Subtract: $150 - 105 = 45$ minutes. She has **45** minutes left.
- Choice D is correct.** (4.OA.A.1) Divide the larger group by the smaller: $16 \div 4 = 4$. So Group X has **4** times as many objects as Group Y.
- Choice D is correct.** (4.OA.B.4) A factor divides evenly with no remainder. Check each choice: $16 \div 3 = 5 \text{ r } 1$ (no); $16 \div 4 = 4$ (yes ✓); $16 \div 5 = 3 \text{ r } 1$ (no); $16 \div 6 = 2 \text{ r } 4$ (no). The full factor list is 1, 2, 4, 8, 16.
- Choice D is correct.** (4.OA.A.2) Claire's group has 2 rows of 4 marbles—that's "2 times as many." Multiply: $2 \times 4 = 8$ marbles.
- Choice B is correct.** (4.MD.C.7) The diagram shows the ramp angle split into two equal parts. If half is 36° , multiply: $36^\circ \times 2 = \mathbf{72^\circ}$.
- Choice D is correct.** (4.OA.B.4) Apply "add 12" to input 8: $8 + 12 = \mathbf{20}$.
- The correct answer is Field A.** (4.NF.C.5) Compare tenths first (they outweigh hundredths). Field A has 8 tenths; Field B has 3 tenths. Since $8 > 3$, $0.83 > 0.38$, so Field A is wider. ✓
- Choice D is correct.** (4.NBT.A.2) Thousands: 5, ones: 234. Combined: $5,000 + 234 = 5,234$ ✓
- Choice C is correct.** (4.NF.B.4) Six garden beds, each needing $\frac{2}{3}$ bag of soil, need $6 \times \frac{2}{3} = \frac{12}{3} = 4$ bags total.
- Choice C is correct.** (4.NF.B.3) Diego wants to give away $\frac{5}{6}$ of his sticker sheets—that's 5 equal pieces out of 6. So $\frac{5}{6} = \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$.

$$\frac{5}{6} = \underbrace{\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}}_{\text{5 unit fractions}}$$
- The correct answer is A, C.** (4.G.A.1) Angle 1 opens just a little (about 35°), making it acute. Angle 2 has that perfect right angle marker, so it's 90° . They're definitely not equal to each other!
- The correct answer is 2.** (4.G.A.3) A rectangle that's not square is longer in one direction. It balances perfectly along a vertical line through the middle and a horizontal line through the middle. The answer is **2**.
- Choice C is correct.** (4.MD.C.6) This angle measures about 95° , which is more than 90° but less than 180° . That's the definition of obtuse, so the answer is obtuse.
- Choice A is correct.** (4.MD.B.4) Look at $\frac{1}{2}$ inch: there are 2 X marks. At $\frac{3}{2}$ inches: there are 3 X marks. The difference is $3 - 2 = 1$.
- Choice B is correct.** (4.NF.B.4) The multiplication $6 \times \frac{1}{8}$ tells us to take 6 copies of $\frac{1}{8}$. Combining them gives us $\frac{6}{8}$.
- Choice C is correct.** (4.NBT.A.1) Check each pair's hundreds digits: 5,614 has a 6 in the hundreds place, and 2,641 also has a 6 in the hundreds place. Answer: **5,614** and **2,641**. ✓
- Choice A is correct.** (4.NF.B.4) Six parts, each one $\frac{1}{9}$: $6 \times \frac{1}{9} = \frac{6}{9}$.
- Choice A is correct.** (4.NF.B.3) Check both decompositions in choice A by adding numerators. First way: $6 + 4 = 10$, so $\frac{6}{12} + \frac{4}{12} = \frac{10}{12}$ ✓. Second way: $5 + 5 = 10$, so $\frac{5}{12} + \frac{5}{12} = \frac{10}{12}$ ✓. Both ways break $\frac{10}{12}$ apart differently but equal the same total. *Why other options fail:* B's second pair sums to $11/12$; C's second sum is $11/12$; D's second sum is only $9/12$.
- Choice B is correct.** (4.NF.B.4) Each plant needs $\frac{1}{6}$ gallon, and Olivia has 8 plants. Multiply: $8 \times \frac{1}{6} = \frac{8 \times 1}{6} = \frac{8}{6} = 1\frac{1}{3}$ gallons. The answer is **$1\frac{1}{3}$** gallons.
- Choice D is correct.** (4.NBT.B.6) Divide: $15 \div 7 = 2 \text{ r } 1$, bring down the 1 to get $11 \div 7 = 1 \text{ r } 4$, bring down the 2 to get $42 \div 7 = 6$. Each charity receives **\\$216**.



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Hi, Hero!

◇ Once there was a Grade 4 student who took 9 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

Storyteller tip: on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

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

Jay Daie

Your Math Storyteller

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

With 9 full-length practice tests, students gain repeated exposure to important Grade 4 concepts while learning how to approach questions with accuracy, confidence, and strong mathematical thinking.

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SUCCESS FOR LIFE.**

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- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
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- ✓ Measurement & Data
- ✓ Perimeter & Area
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- ✓ Mathematical Reasoning
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