

4

Vermont VTCAP



GRADE 4

MATH

PRACTICE TESTS



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-ALIGNED
REVIEW



MIXED PRACTICE
QUESTIONS



ANSWER KEY
INCLUDED

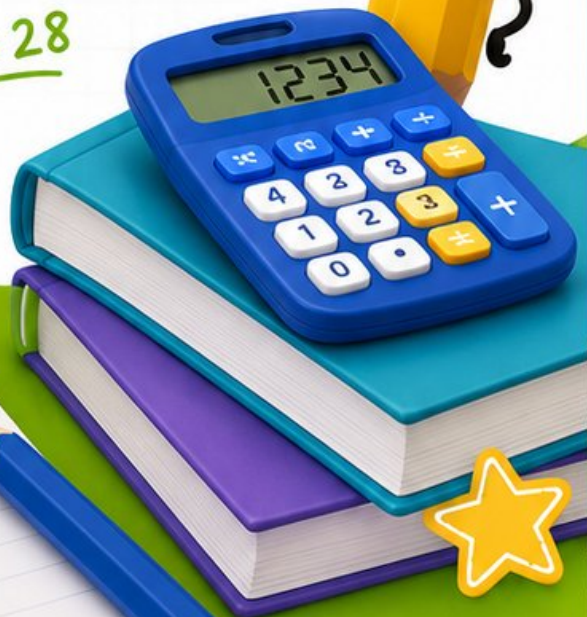


Standards-Aligned Review with
Mixed Practice and Answer Key



$$4 \times 7 = 28$$

$$36 \div 9 = 4$$



4 Vermont VTCAP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Welcome, Vermont Math Explorer!

Four steady rounds on the Green Mountain math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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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For more practice
& answers

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1) Ethan has 5 toy soldiers. Owen has 7 times as many. How many more soldiers does Owen have?

- A. 12 C. 25
 B. 35 D. 30

2) How many thirds are in $\frac{3}{3}$?

- A. 0 C. 3
 B. 1 D. 6

3) Which diagram shows two lines that will eventually intersect?



- A. Diagram A C. Diagram C
 B. Diagram B D. Diagram D

4) What is the next number in the sequence? 3, 6, 12, 24, 48, __



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5)


 $\frac{1}{4} \text{ m}$

This tile represents $\frac{1}{4}$ meter. How many meters do you have with 6 of these tiles?

6) Ava's eraser costs \$0.32. Which fraction shows this price?

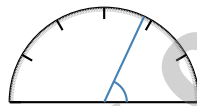
A. $\frac{32}{10}$

B. $\frac{3}{2}$

C. $\frac{32}{100}$

D. $\frac{32}{1000}$

7)



What is the best estimate of this angle?

A. 60 degrees

B. 70 degrees

C. 75 degrees

D. 65 degrees

8) Which two fractions are both equivalent to $\frac{1}{5}$?

A. $\frac{2}{10}$ and $\frac{20}{100}$

B. $\frac{3}{10}$ and $\frac{30}{100}$

C. $\frac{2}{10}$ and $\frac{30}{100}$

D. $\frac{1}{10}$ and $\frac{10}{100}$

9) What is $8,432 - 3,657$?

A. 4,225

B. 5,775

C. 5,225

D. 4,775



1) Noah's plant is 0.6 meters tall. Which fraction shows this height?

A. $\frac{6}{100}$ meters

B. $\frac{6}{10}$ meters

C. $\frac{60}{10}$ meters

D. $\frac{600}{10}$ meters

2) Isabella baked $4\frac{1}{2}$ trays of cookies. She sold $1\frac{1}{2}$ trays. How many trays of cookies does she have left?

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

B. $5\frac{2}{2}$

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

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

3) A race is 8,800 yards long. How many miles is this?

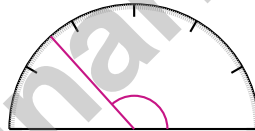
A. 2

B. 3

C. 4

D. 5

4)



What is the measure of this angle?

A. 120 degrees

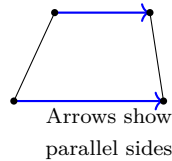
B. 132 degrees

C. 140 degrees

D. 128 degrees



- 5) Look at the figure with arrows showing parallel sides. How many pairs of parallel sides does it have?



- A. Zero pairs
- B. One pair
- C. Two pairs
- D. Three pairs
- 6) Rosa had $3\frac{2}{6}$ pizzas. She gave away $1\frac{5}{6}$ pizzas. How much pizza does she have left?
- A. $1\frac{1}{6}$ pizzas
- B. $1\frac{3}{6}$ pizzas
- C. $1\frac{4}{6}$ pizzas
- D. $2\frac{1}{6}$ pizzas
- 7) What is $\frac{5}{10} + \frac{25}{100}$?
- A. $\frac{30}{100}$
- B. $\frac{75}{100}$
- C. $\frac{5}{25}$
- D. $\frac{30}{110}$
- 8) A baker makes cookies and sells them at \$2 each. If she sells 18 cookies, how much money does she earn?
- A. \$16
- B. \$20
- C. \$36
- D. \$40
- 9) Tyler has 6 toy trains. His cousin has 4 times as many toy trains. How many toy trains does his cousin have?



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1) What is $6\frac{4}{8} - 3\frac{2}{8}$?

A. $3\frac{2}{8}$

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

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

D. $4\frac{1}{8}$

2) In the number 6,663, the value of the digit 6 in the hundreds place is how many times the value of the digit 6 in the tens place?

A. 1

B. 1,000

C. 100

D. 10

3) Sam has 24 stickers. He sorts them into 4 equal groups and keeps one group. Then he gets 8 more stickers. How many stickers does he have now?

A. 20

B. 16

C. 12

D. 14

4) Hassan ate $\frac{2}{6}$ of a pizza and Iris ate $\frac{1}{3}$ of an identical pizza. Who ate more, or did they eat the same amount?

5) A basketball game starts at 6:00 p.m. and ends at 8:30 p.m. How long is the game?

Start	End
6:00 p.m.	8:30 p.m.

A. 1 hour

B. 2 hours

C. 2 hours 30 minutes

D. 3 hours



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6) Find $8 \times \frac{2}{3}$ as a mixed number.

7) A line plot shows four ribbon lengths: $\frac{1}{8}$ inch, $\frac{3}{8}$ inch, $\frac{3}{8}$ inch, and $\frac{5}{8}$ inch. What is the sum of these measurements?

A. $\frac{10}{8}$ inch

C. $\frac{14}{8}$ inch

B. $\frac{12}{8}$ inch

D. $\frac{16}{8}$ inch

8) Noah's class collected 455 books. They want to donate them equally to 5 libraries. How many books go to each library?

A. 81

C. 97

B. 85

D. 91

9) A bead weighs $\frac{1}{10}$ gram. How much do 9 beads weigh?

A. $\frac{1}{90}$ gram

C. $\frac{10}{9}$ grams

B. $\frac{9}{10}$ grams

D. $\frac{9}{90}$ gram

10) Add: $\frac{2}{10} + \frac{30}{100}$.

A. $\frac{32}{100}$

C. $\frac{32}{110}$

B. $\frac{50}{100}$

D. $\frac{2}{30}$



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 D is correct.** (4.OA.A.1) Step 1: find Owen's soldiers: $5 \times 7 = 35$. Step 2: "how many *more*" is a subtraction: $35 - 5 = 30$. Owen has **30** more soldiers than Ethan.
- Choice C is correct.** (4.NF.B.4) One whole is $\frac{3}{3}$, which equals $3 \times \frac{1}{3}$. So there are **3** thirds in one whole.
- Choice D is correct.** (4.G.A.1) Parallel lines never meet, but non-parallel lines angle toward each other and will eventually crash together. Diagram D shows two lines leaning toward each other, so they'll meet someday.
- The correct answer is 96.** (4.OA.B.4) Double each term: 3, 6, 12, 24, 48, **96**. The next term is **96**.
- The correct answer is $\frac{6}{4}$.** (4.NF.B.4) With 6 tiles, each $\frac{1}{4}$ meter long, we have $6 \times \frac{1}{4} = \frac{6}{4} = 1\frac{1}{2}$ meters total.
- Choice C is correct.** (4.NF.C.5) The cost is \$0.32, which equals thirty-two cents or $\frac{32}{100}$ of a dollar.
- Choice D is correct.** (4.MD.C.6) The ray falls between the 60° and 70° marks, right in the middle of that range. At 65° , this acute angle is a good estimate for the angle shown. The answer is **65** degrees.
- Choice A is correct.** (4.NF.A.1) Multiply both numerator and denominator by 2 to get tenths: $\frac{1}{5} = \frac{1 \times 2}{5 \times 2} = \frac{2}{10}$. Then multiply by 20 to get hundredths: $\frac{1}{5} = \frac{1 \times 20}{5 \times 20} = \frac{20}{100}$.
- Choice D is correct.** (4.NBT.B.4) Subtract column by column, regrouping as needed. Starting from the ones: we need to regroup the tens and higher places to complete the subtraction. The answer is **4,775**.
- Choice A is correct.** (4.NBT.A.2) Looking at the table, the hundreds column shows 4 for Option A, which gives 2,415 ✓
- Choice A is correct.** (4.NF.B.3) The chocolate bar is shared, but some is left over. Step 1: Add what was eaten: $\frac{5}{10} + \frac{3}{10} = \frac{8}{10}$. Step 2: Subtract from the whole: $\frac{10}{10} - \frac{8}{10} = \frac{2}{10}$ left uneaten.
- Choice A is correct.** (4.MD.C.7) The line splits the angle into two parts. Subtract to find the missing part: $158^\circ - 84^\circ = 74^\circ$.
- Choice A is correct.** (4.NF.C.5) Compare the tenths place: $0 < 1 < 9$. For the two with tenths = 9, compare hundredths: $0 < 9$, so $0.90 < 0.99$.
- The correct answer is A, D.** (4.NBT.A.1) A is true: 5 is in the hundreds place. D is true: 4 is in the tens place ($4 \times 10 = 40$). B, C, E are false. Answer: A and D. ✓
- The correct answer is 12.** (4.MD.C.5) Divide the full circle by 30 degrees: $360^\circ \div 30^\circ = 12$ angles needed.
- Choice A is correct.** (4.G.A.3) This trapezoid has two slanted sides of different lengths (legs), making it lopsided. No fold line can create two matching halves. The answer is **0** lines of symmetry.
- Choice C is correct.** (4.MD.A.3) From $88 = \ell \times 8$: Divide to get $\ell = 88 \div 8 = 11$ m.
- Choice A is correct.** (4.NF.B.3) Multiply the whole by the denominator: $4 \times 3 = 12$. Add the numerator: $12 + 2 = 14$. The result is $\frac{14}{3}$.
- Choice B is correct.** (4.G.A.2) Triangle 2 shows a right angle marker in the form of a small square at one corner, which indicates a right triangle. Triangle 1 has no right angle marker. The answer is **B**.
- Choice D is correct.** (4.OA.B.4) Test each number for factors beyond 1 and itself. 13: not even (so not $\div 2$); digits $1 + 3 = 4$ (not $\div 3$); doesn't end in 0 or 5 (not $\div 5$). Only 1×13 works—**prime!** The others are composite: $14 = 2 \times 7$, $16 = 2 \times 8$, $18 = 2 \times 9$.
- Choice A is correct.** (4.NF.B.3) A unit fraction has numerator 1. The farmer uses 4 plots, so we need four $\frac{1}{6}$ pieces: $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$ ✓.
- Choice D is correct.** (4.OA.A.3) Divide to pack: $73 \div 12 = 6$ remainder 1. So 6 complete boxes get filled and 1 cookie is left over. *Check:* $6 \times 12 = 72$, and $73 - 72 = 1$. ✓
- Choice C is correct.** (4.MD.B.4) Look at the line plot where $\frac{2}{4}$ inch is marked. Count the X marks stacked above that tick: we see **3** marks.
- Choice A is correct.** (4.NF.A.1) Same denominator, so compare numerators. Since $6 < 9$, we have $\frac{6}{12} < \frac{9}{12}$.
- Choice C is correct.** (4.OA.A.2) Ethan's group has 2 rows of 9 pencils—"2 times as many." Multiply: $2 \times 9 = 18$ colored pencils.



Hi, Math Champion!

◇ You trained hard! 4 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!

★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

PERFECT FOR:

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

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SUCCESS TOMORROW!**

WHAT STUDENTS WILL GAIN



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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.



Prepare for Success

Build the confidence needed to do your best on test day.

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- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
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