

6 Vermont VTCAP

GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



MASTER KEY MATH CONCEPTS
BUILD CONFIDENCE FOR TEST DAY

INCLUDES COMPREHENSIVE ANSWER KEY
ALIGNED STATE STANDARDS

6 Vermont VTCAP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six 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.

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Welcome, Vermont Math Explorer!

Six steady rounds on the Green Mountain math route

This book gives you six 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?

Six tests, 180 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 4–6	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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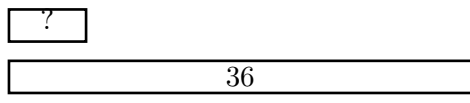
1) Diego used $\frac{9}{10}$ of his water supply. He used $\frac{6}{10}$ on the hike and $\frac{3}{10}$ at camp. Which shows this decomposition?

A. $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$

B. $\frac{5}{10} + \frac{3}{10} = \frac{8}{10}$

C. $\frac{7}{10} + \frac{1}{10} = \frac{8}{10}$

D. $\frac{8}{10} + \frac{2}{10} = \frac{10}{10}$

2)  6 times

A box has 36 crayons. That is 6 times as many crayons as a smaller box has. How many crayons are in the smaller box?

 A. 42

 C. 30

 B. 12

 D. 6

3) A figure has exactly 3 lines of symmetry. Which listed figure matches that description?

 A. It is a square

 C. It is a rectangle

 B. It is an equilateral triangle

 D. It is a circle

4) What is $\frac{7}{10}$ written as a fraction with denominator 100?

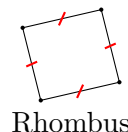
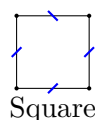
A. $\frac{7}{100}$

C. $\frac{17}{100}$

B. $\frac{70}{100}$

D. $\frac{77}{100}$

5) Which attribute is shared by both a square and a rhombus?


 A. All sides are equal

 C. No parallel sides

 B. All angles are right angles

 D. Only three sides


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6) Multiply the numerator and denominator of $\frac{3}{5}$ by 2. What fraction do you get?

A. $\frac{6}{10}$

B. $\frac{5}{7}$

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

D. $\frac{6}{7}$

7) Find $6\frac{5}{8} - 3\frac{7}{8}$.

8) A ribbon is 0.75 meters long. Which fraction is equivalent to this length?

A. $\frac{7}{10}$

B. $\frac{75}{100}$

C. $\frac{75}{10}$

D. $\frac{750}{100}$

9) Four students measured string lengths in fourths. Leo: $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}$ (sum: $\frac{6}{4}$). Sam: $\frac{2}{4}, \frac{2}{4}$ (sum: $\frac{4}{4}$). Chris: $\frac{3}{4}, \frac{3}{4}, \frac{3}{4}$ (sum: $\frac{9}{4}$). Whose total is shortest?

 A. Leo B. Sam C. Chris D. Leo and Sam are equal

10) A full turn around a point equals 360 degrees. How many one-degree angles make a full turn?

 A. 180 one-degree angles B. 90 one-degree angles C. 360 one-degree angles D. 720 one-degree angles

11) Which pattern shows all multiples of 6?

A. 2, 4, 6, 8, 10

C. 3, 6, 9, 12, 15

B. 6, 12, 18, 24, 30

D. 5, 10, 15, 20, 25

12) A bookstore sells 12 new books per day for 15 days. The store also has 18 older books on a display shelf. Not counting the older books, how many new books did the bookstore sell?

A. 120

C. 200

B. 198

D. 180 books

13) What number is equal to $30,000 + 6,000 + 500 + 20 + 8$?

A. 36,285

C. 36,258

B. 36,582

D. 36,528

14) Simplify $\frac{2}{8}$.

15) Which TWO problems have a product greater than 500?

A. 20×26

B. 20×22

C. 17×25

D. 19×28

E. 21×19



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1) Which letter has exactly 2 lines of symmetry?

A. *K*

C. *I*

B. *N*

D. *R*

2) Which shows the error in this student work? The student said $\frac{1}{4} + \frac{1}{4} = \frac{2}{8}$.

A. Should not add fractions with same denominators

C. The correct answer is $\frac{2}{4}$, not $\frac{2}{8}$

B. Adding the numerators and denominators separately (mistake)

D. Cannot add fractions at all

3) $\frac{4}{5}$ can be written as the sum of four unit fractions:

A. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

C. $\frac{1}{5} + \frac{2}{5} + \frac{1}{5} + \frac{1}{5}$

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

D. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{2}{5}$

4) Two jars of jam are the same size. One jar is $\frac{3}{4}$ full, and another is $\frac{4}{5}$ full. Which jar is more full?

A. The first jar ($\frac{3}{4}$)

C. Both are equally full

B. The second jar ($\frac{4}{5}$)

D. Cannot determine

5) Round 27,392 to the nearest ten.

A. 27,392

C. 27,300

B. 27,400

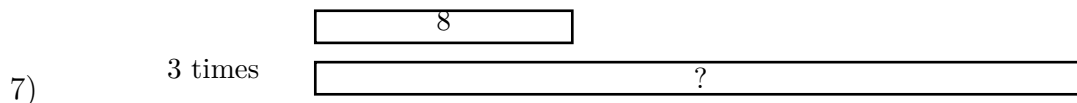
D. 27,390



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6) Sam has $1\frac{2}{4}$ yards of red ribbon and $2\frac{1}{4}$ yards of blue ribbon. How many yards of ribbon does Sam have in total?

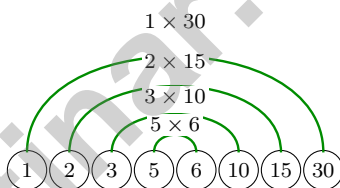
- A. $2\frac{3}{4}$ yards C. $3\frac{3}{4}$ yards
 B. $3\frac{2}{4}$ yards D. $4\frac{1}{4}$ yards



Ethan has 8 trading cards. Lily has 3 times as many trading cards as Ethan. How many does Lily have?

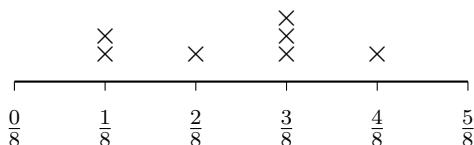
- A. 11 C. 32
 B. 16 D. 24

8) The factor pairs of 30 are connected by an arc. Count them:



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

9) Here is a line plot showing sticker lengths (in inches):



What is the difference in inches between the longest and shortest stickers?

- A. $\frac{1}{8}$ inch C. $\frac{3}{8}$ inch
 B. $\frac{2}{8}$ inch D. $\frac{4}{8}$ inch

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

- 1) **Choice A is correct.** (4.NF.B.3) Diego used $\frac{6}{10}$ on the hike and $\frac{3}{10}$ at camp. Total water used: $6 + 3 = 9$, so $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$ ✓.
- 2) **Choice D is correct.** (4.OA.A.2) We know the bigger box has 36 crayons, and that's 6 times the smaller box. To find the smaller, divide: $36 \div 6 = 6$ crayons.
- 3) **Choice B is correct.** (4.G.A.3) A square has 4 lines, circles have many, and rectangles have 2. Only an equilateral triangle with three equal sides balances in exactly 3 directions. The answer is It is an equilateral triangle.
- 4) **Choice B is correct.** (4.NF.C.5) Let's convert $\frac{7}{10}$ to a fraction with denominator 100 by multiplying: $\frac{7}{10} = \frac{7 \times 10}{10 \times 10} = \frac{70}{100}$.
- 5) **Choice A is correct.** (4.G.A.2) Both a square and a rhombus have four equal sides in length. However, a square must have all right angles at each corner, while a rhombus does not have to have any right angles. The answer is **A**.
- 6) **Choice A is correct.** (4.NF.A.1) Multiply the numerator and denominator by 2: $\frac{3}{5} = \frac{3 \times 2}{5 \times 2} = \frac{6}{10}$.
- 7) **The correct answer is $2\frac{6}{8}$.** (4.NF.B.3) Since $\frac{5}{8} < \frac{7}{8}$, regroup: $6\frac{5}{8} = 5\frac{13}{8}$. Then subtract: $5\frac{13}{8} - 3\frac{7}{8} = 2\frac{6}{8}$.
- 8) **Choice B is correct.** (4.NF.C.5) A ribbon 0.75 meters long is $\frac{75}{100}$ of a meter (or three quarters of a meter).
- 9) **Choice B is correct.** (4.MD.B.4) Leo's total: $\frac{6}{4}$. Sam's total: $\frac{4}{4} = 1$. Chris's total: $\frac{9}{4}$. Sam has the shortest length.
- 10) **Choice C is correct.** (4.MD.C.5) A full turn all the way around a point is 360° , made of **360** one-degree angles.
- 11) **Choice B is correct.** (4.OA.B.4) Multiples of 6 are: 6, 12, 18, 24, 30, ... Check choice B: $6 \div 6 = 1$, $12 \div 6 = 2$. All divide evenly. ✓
- 12) **Choice D is correct.** (4.OA.A.3) Watch out for extra information! The 18 older books are not new sales, so we ignore them. Just multiply: 12 books/day \times 15 days = 180 new books sold.
- 13) **Choice D is correct.** (4.NBT.A.2) Step 1: $30,000 + 6,000 = 36,000$. Step 2: $36,000 + 500 + 20 + 8 = 36,528$ ✓
- 14) **The correct answer is $\frac{1}{4}$.** (4.NF.A.1) Divide both numerator and denominator by their common factor 2: $\frac{2}{8} = \frac{1}{4}$.
- 15) **The correct answer is A, D.** (4.NBT.B.5) Calculate each: A: 520, B: 440, C: 425, D: 532, E: 399. Only A ($520 > 500$) and D ($532 > 500$) exceed 500.
- 16) **Choice D is correct.** (4.OA.B.4) Test the small primes: 43 is odd; $4 + 3 = 7$ (not $\div 3$); doesn't end in 0 or 5; $7 \times 6 = 42$, $7 \times 7 = 49$, no 7. So 43's only factors are 1 and 43—**prime**.
- 17) **Choice A is correct.** (4.MD.C.7) Split the straight angle into 4 equal parts: $180^\circ \div 4 = 45^\circ$.
- 18) **Choice A is correct.** (4.NF.B.4) We have 2 strings that are each $\frac{2}{8}$ meter long. We multiply: $2 \times \frac{2}{8} = \frac{4}{8}$, which simplifies to $\frac{1}{2}$ meter.
- 19) **Choice C is correct.** (4.MD.A.3) Carpet needed = $14 \times 10 = 140$ sq ft.
- 20) **Choice C is correct.** (4.NBT.B.6) Divide: $14 \div 8 = 1$ r6, bring down the 5 to get $65 \div 8 = 8$ r1, bring down the 6 to get $16 \div 8 = 2$. Each animal receives **182** pounds of feed.
- 21) **Choice A is correct.** (4.NF.B.4) For $5 \times \frac{1}{2}$, we need 5 bars, each divided in half with one half shaded in each. Picture A shows five bars with one-half shaded in each bar. The answer is Picture A.
- 22) **Choice D is correct.** (4.OA.A.1) Read $32 = 8 \times 4$ in words: "32 equals 8 groups of 4," which is the same as "32 is 8 times as many as 4." The other choices describe adding or subtracting, not multiplying.
- 23) **Choice C is correct.** (4.MD.C.5) An obtuse angle opens wider than a right angle.
- 24) **Choice B is correct.** (4.G.A.1) The first letter of a ray name is always the starting point. Ray UV begins at U and shoots through V forever. Diagram B shows this with the arrow starting at U .
- 25) **Choice C is correct.** (4.MD.A.2) Day one: 120 miles. Day two: 145 miles. Add: $120 + 145 = 265$ miles. The total distance is **265** miles.
- 26) **Choice C is correct.** (4.NF.B.4) Step 1: Check each. Step 2: $4 \times \frac{1}{6}$ should give $\frac{4}{6}$, not $\frac{4}{12}$. That's the wrong one!
- 27) **Choice A is correct.** (4.MD.C.5) The shaded region spans from 45° to 225° , which is 180° or $\frac{1}{2}$ of the full circle.
- 28) **Choice C is correct.** (4.MD.C.6) A straight angle measures 180° . An angle very close to a straight line must be almost 180° . At 170° , it's only 10° away from being completely flat. The answer is **170** degrees.



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Hi, Math Athlete!

◇ 6 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

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

PERFECT FOR:

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- ✔ Homework & Review
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- ✔ Test Preparation
- ✔ Skill Reinforcement
- ✔ Confidence Building

★ **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.



Master Key Concepts

Reinforce important skills aligned with grade-level standards.



Prepare for Success

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

TOPICS COVERED

- ✔ Place Value & Number Sense
- ✔ Addition & Subtraction
- ✔ Multiplication & Division
- ✔ Fractions & Equivalent Fractions
- ✔ Decimals
- ✔ Geometry & Measurement
- ✔ Perimeter & Area
- ✔ Data, Graphs & Line Plots
- ✔ Patterns & Algebraic Thinking
- ✔ And More!



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Strengthens Critical Thinking & Problem Solving



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Prepares Students for Test Day Success