

3

Vermont VTCAP

GRADE 4

MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**5 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
QUESTIONS**



**ANSWER KEY
INCLUDED**

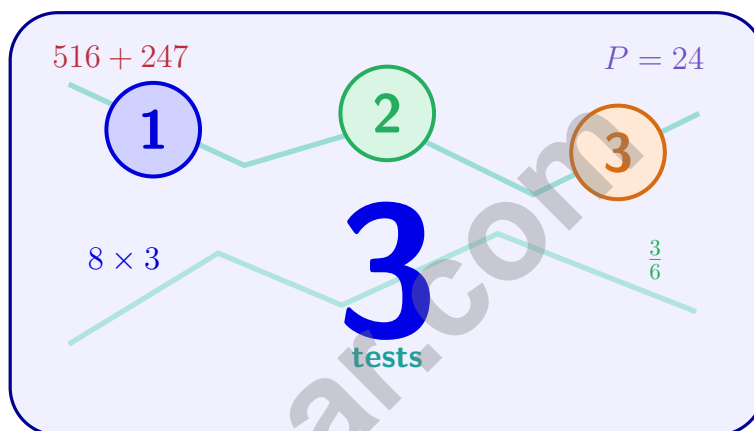
$$a^2 + b^2 = c^2$$

$$\frac{3}{4}$$



3 Vermont VTCAP Grade 4 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 4 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, Vermont Math Explorer!

Three steady rounds on the Green Mountain math route

This book gives you three full Grade 3 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?

Three tests, 90 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 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	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.

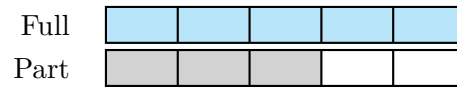


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For more practice
& answers

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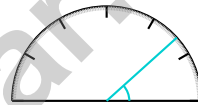
- 1) Two representations of the same improper fraction:



This shows a mixed number. Which equals this decomposition?

- | | |
|--|--|
| <input type="checkbox"/> A. $1\frac{3}{5} = \frac{5}{5} + \frac{3}{5}$
<input type="checkbox"/> B. $1\frac{2}{5} = \frac{5}{5} + \frac{2}{5}$ | <input type="checkbox"/> C. $2\frac{1}{5} = \frac{10}{5} + \frac{1}{5}$
<input type="checkbox"/> D. $\frac{8}{5} = \frac{2}{5} + \frac{5}{5}$ |
|--|--|
- 2) A rectangle has an area of 56 square centimeters. The width is 7 centimeters. What is the length?
- | | |
|--|--|
| <input type="checkbox"/> A. 6 cm
<input type="checkbox"/> B. 7 cm | <input type="checkbox"/> C. 8 cm
<input type="checkbox"/> D. 9 cm |
|--|--|

3)

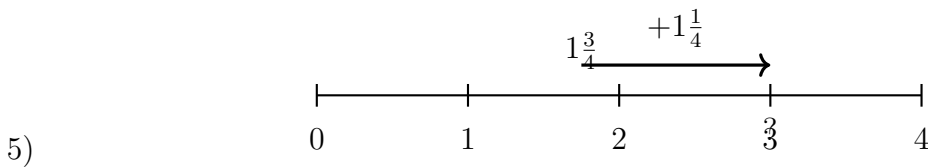


What is the measure of the angle shown?

- | | |
|--|--|
| <input type="checkbox"/> A. 42 degrees
<input type="checkbox"/> B. 48 degrees | <input type="checkbox"/> C. 40 degrees
<input type="checkbox"/> D. 45 degrees |
|--|--|
- 4) A rectangle's width is 7 feet. Its length is 2 times as long as its width. What is the length?
- | | |
|--|---|
| <input type="checkbox"/> A. 5 feet
<input type="checkbox"/> B. 9 feet | <input type="checkbox"/> C. 3.5 feet
<input type="checkbox"/> D. 14 feet |
|--|---|

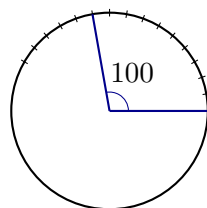


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Using the number line, what is $1\frac{3}{4} + 1\frac{1}{4}$?

- A. 3
- B. $2\frac{3}{4}$
- C. $2\frac{1}{4}$
- D. $3\frac{1}{4}$
- 6) Compare two multiples: Is $6 \times \frac{1}{10}$ greater than, less than, or equal to $\frac{6}{10}$?
- A. Greater than
- B. Less than
- C. Equal to
- D. Cannot compare
- 7) Which inequality is true?
- A. $\frac{5}{8} > \frac{7}{8}$
- B. $\frac{5}{8} < \frac{1}{2}$
- C. $\frac{5}{8} = \frac{7}{8}$
- D. $\frac{5}{8} < \frac{7}{8}$
- 8) How many unit fractions of $\frac{1}{2}$ make up $\frac{2}{2}$?
- A. 1
- B. 2
- C. 3
- D. 4



- 9) Ava drew an angle that measures 100 degrees. How many one-degree angles does it contain?
- A. 50 one-degree angles
- B. 100 one-degree angles
- C. 200 one-degree angles
- D. 10 one-degree angles



10) In the number 5,391, what digit is in the tens place?

11) The pattern is: 2, 4, 8, 16, 32, ... What is the 7th term?

- A. 64 C. 256
 B. 512 D. 128

12) Lily had 3 sticker sheets. Her grandmother gave her 4 times as many sticker sheets as Lily already had. How many sticker sheets does Lily have in all?

- A. 7 C. 16
 B. 12 D. 15

13) A craft project needs 27 beads per bracelet. A shop has 350 beads total. How many complete bracelets can they make, and will there be beads left over?

- A. 12 bracelets, 1 bead left C. 13 bracelets, 1 bead left
 B. 13 bracelets, 0 beads left D. 12 bracelets, 26 beads left

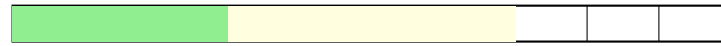
14) What is $4 \times \frac{1}{3}$?

- A. $\frac{4}{3}$ or $1\frac{1}{3}$ C. $\frac{3}{4}$
 B. $\frac{1}{12}$ D. $\frac{4}{4}$



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remaining

 $\frac{3}{10}$ $\frac{4}{10}$

1)

A garden bed uses $\frac{3}{10}$ for vegetables and $\frac{4}{10}$ for flowers. The rest will be herbs. What fraction is for herbs?

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

C. $\frac{1}{10}$

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

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

2) What is 21×41 ?

A. 782

C. 841

B. 920

D. 861

3) What is 39,845 rounded to the nearest ten thousand?

A. 30,000

C. 40,000

B. 39,000

D. 50,000

4) Write $\frac{50}{100}$ as a decimal.


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5) How many times does 7 go into 2,849?

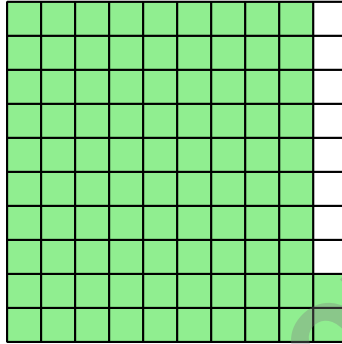
A. 407

C. 413

B. 410

D. 417

6) How many hundredths are shaded in this grid?



A. 8 hundredths or 0.08

C. 92 hundredths or 0.92

B. 80 hundredths or 0.80

D. 20 hundredths or 0.20

7) Write $2\frac{5}{6}$ as an improper fraction.

8) A rope measures 1,200 centimeters. How many meters is this?

A. 12

C. 1,200

B. 120

D. 120,000



1) A rectangle has a length of 12 m and a width of 7 m. What is its perimeter?

- A. 19 m C. 84 m
 B. 38 m D. 76 m

2) The letter *Y* has how many lines of symmetry?

- A. 0 C. 2
 B. 1 D. 3

3) A school orders supplies. They buy 120 notebooks at \$1 each and 80 pens at \$2 each. (Ignore the cost; just count items.) They distribute items equally to 10 classrooms. How many items does each classroom get?

- A. 12 items C. 25 items
 B. 16 items D. 20 items

4) Complete the sequence using the pattern shown in the table:

Term	1	2	3	4
Value	9	12	15	?

- A. 16 C. 18
 B. 17 D. 20

5) Ethan has 3 meters of fabric. How many millimeters is this?

- A. 30 C. 3,000
 B. 300 D. 30,000



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& 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.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice A is correct.** (4.NF.B.3) Top bar is full (one whole). Bottom bar shows $\frac{3}{5}$ shaded. Together: $1 + \frac{3}{5} = 1\frac{3}{5}$ ✓.
- Choice C is correct.** (4.MD.A.3) From area = $\ell \times w$: $56 = \ell \times 7$. Divide: $\ell = 56 \div 7 = 8$ cm.
- Choice A is correct.** (4.MD.C.6) The ray points to the 42° mark, which is between the 30° and 60° benchmarks. Since $42^\circ < 90^\circ$, it's an acute angle. The answer is **42** degrees.
- Choice D is correct.** (4.OA.A.1) "2 times as long" is a multiplication signal. The length is $7 \times 2 = 14$ feet.
- Choice A is correct.** (4.NF.B.3) Start at $1\frac{3}{4}$ and jump right by $1\frac{1}{4}$. Add the wholes: $1 + 1 = 2$. Add the fractions: $\frac{3}{4} + \frac{1}{4} = \frac{4}{4} = 1$. Combine: $2 + 1 = 3$.
- Choice C is correct.** (4.NF.B.4) $6 \times \frac{1}{10} = \frac{6}{10}$, so they're exactly equal!
- Choice D is correct.** (4.NF.A.1) The denominators match, so look at the numerators. Since $5 < 7$, $\frac{5}{8} < \frac{7}{8}$.
- Choice B is correct.** (4.NF.B.3) $\frac{2}{2}$ means the whole, which breaks into unit fractions: $\frac{2}{2} = \frac{1}{2} + \frac{1}{2}$. So there are **2** unit fractions of $\frac{1}{2}$.
- Choice B is correct.** (4.MD.C.5) Ava's angle measures 100° , which means it contains **100** one-degree angles.
- The correct answer is 9.** (4.NBT.A.1) Count from the right: ones, tens, hundreds, thousands. The tens place is the second digit from the right, which is **9**. ✓
- Choice D is correct.** (4.OA.B.4) Double each term: 2, 4, 8, 16, 32, 64, **128**. The 7th term is **128**.
- Choice D is correct.** (4.OA.A.2) Two steps! Step 1: Grandma gave Lily $4 \times 3 = 12$ more sheets. Step 2: Add what Lily already had: $3 + 12 = 15$ sheets in all.
- Choice D is correct.** (4.OA.A.3) Divide to share equally: $350 \div 27 = 12$ remainder 26. So 12 complete bracelets are made, with 26 beads left over (not enough for one more bracelet, since one more needs 27).
- Choice A is correct.** (4.NF.B.4) We take 4 copies of $\frac{1}{3}$. Multiply: $4 \times \frac{1}{3} = \frac{4 \times 1}{3} = \frac{4}{3} = 1\frac{1}{3}$. The answer is **1 $\frac{1}{3}$** .
- Choice A is correct.** (4.NBT.B.6) Use long division: $2 \div 7 = 0$ r2, bring down the 5 to get $25 \div 7 = 3$ r4, bring down the 2 to get $42 \div 7 = 6$, bring down the 0 to get $0 \div 7 = 0$. The answer is **360**.
- Choice B is correct.** (4.MD.A.1) Since 1 gallon = 4 quarts, divide: $36 \div 4 = 9$ gallons. The answer is **9** gallons.
- The correct answer is A, C.** (4.G.A.3) A square balances in four ways: two lines go through opposite corners (diagonals), and two go through the midpoints of opposite sides. Choice A is correct (4 lines). Choice C is correct (lines through side midpoints exist). B is wrong because $4 \neq 2$. D is wrong because hexagons have 6, not more than 4. E is wrong because both diagonal lines are lines of symmetry!
- Choice B is correct.** (4.NF.B.3) The yard has green and yellow sections. Step 1: Add the colored parts: $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$. Step 2: Subtract from the whole yard: $\frac{4}{4} - \frac{3}{4} = \frac{1}{4}$ is not colored.
- The correct answer is 0.70.** (4.NF.C.5) Use the equivalence: 7 tenths = 70 hundredths (because each tenth contains 10 hundredths). So $0.7 = 0.70$. The trailing zero doesn't change the value—it just shows the same amount in hundredths. ✓
- The correct answer is $\frac{55}{100}$.** (4.NF.C.5) First, change $\frac{2}{10}$ to hundredths: $\frac{2}{10} = \frac{20}{100}$. Now add: $\frac{20}{100} + \frac{35}{100} = \frac{55}{100}$.
- Choice D is correct.** (4.NBT.B.5) Break 18: $36 \times (10 + 8) = 360 + 288 = 648$ square feet.
- Choice A is correct.** (4.NF.C.5) Point X is near 0.3, at 0.28. Point Y is near 0.7, at 0.72. Since $0.28 < 0.72$, we have $X < Y$.
- Choice A is correct.** (4.G.A.1) Every line segment has exactly two endpoints — the places where it starts and stops. Here that's X and Y.
- Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest thousand. Look at the hundreds digit: 3. Since $3 < 5$, we round DOWN and keep the thousands digit as 2, giving us **12,000**. ✓
- Choice C is correct.** (4.MD.C.5) The opening is smaller than a right angle, so this is an acute angle.
- Choice B is correct.** (4.MD.C.7) The pie chart shows three slices. Add their angle measures: $65^\circ + 55^\circ + 60^\circ = 180^\circ$.
- Choice A is correct.** (4.NBT.B.4) Subtract carefully with regrouping: $7,123 - 2,456 = 4,667$.



Hi, Brave Trail-Walker!

◇ You walked all 3 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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

Jay Daie

Your Math Trail Guide

PRACTICE TODAY. SUCCEED TOMORROW!

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

With 3 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

★ CONFIDENCE TODAY.
SUCCESS TOMORROW!

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.



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 & Decimals
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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