

# 8 Vermont VTCAP GRADE 4



## PRACTICE TESTS



Standards-Aligned Review with  
Mixed Practice and Answer Key

**COMPREHENSIVE  
TEST PREP**

Includes Solutions

# 8 Vermont VTCAP Grade 4 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Eight 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!

Eight steady rounds on the Green Mountain math route

This book gives you eight 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?

Eight tests, 240 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 6–8	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.

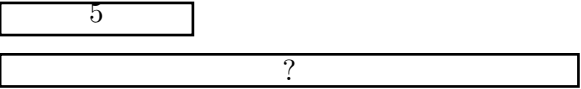


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- 1) A line plot shows leaf lengths in halves of an inch:  $\frac{1}{2}$ ,  $\frac{1}{2}$ , 1,  $\frac{1}{2}$ , 1, 1. How many leaves measured 1 inch?
- A. 1                                       C. 3  
 B. 2                                       D. 4
- 2) An angle measures 145 degrees. How many one-degree angles make up this angle?
- A. 72.5 one-degree angles                       C. 290 one-degree angles  
 B. 145 one-degree angles                       D. 14.5 one-degree angles
- 3) Round 56,841 to the nearest thousand.
- A. 56,000                                       C. 56,800  
 B. 60,000                                       D. 57,000
- 4) A rectangle has a width of 8 meters. The perimeter is 36 meters. What is the length?
- A. 12 m                                       C. 18 m  
 B. 14 m                                       D. 10 m

- 5) 

Harper collected 5 seashells. Jackson collected 3 times as many seashells as Harper. How many seashells did Jackson collect?



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6) Find  $\frac{5}{6} + \frac{1}{6}$ .

7) A paper is folded. The fold creates an angle of  $70^\circ$ . Another fold creates an angle of  $20^\circ$ . If both folds meet at the same point, what is the combined angle measure?

A.  $50^\circ$

C.  $100^\circ$

B.  $90^\circ$

D.  $140^\circ$

8) What is  $\frac{1}{4}$  equivalent to if you multiply the numerator and denominator by 2?

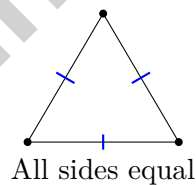
A.  $\frac{2}{8}$

C.  $\frac{3}{6}$

B.  $\frac{2}{6}$

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

9) Look at this triangle with all three sides marked as equal with tick marks. What type of triangle is it?



A. Scalene triangle

C. Equilateral triangle

B. Isosceles triangle

D. Right triangle



- 10) Which number completes the equation?  $\_\_\_ \times \frac{1}{5} = \frac{3}{5}$
- A. 1  C. 3  
 B. 2  D. 5
- 11) In the word form “seventy-eight thousand, four hundred twelve”, which place does the digit 8 occupy?
- A. Tens place  C. Hundreds place  
 B. Ten-thousands place  D. Thousands place
- 12) Tommy eats  $\frac{1}{4}$  of a pizza 6 times a week. How much pizza does he eat per week?
- A.  $\frac{1}{24}$  of a pizza  C.  $\frac{6}{24}$  of a pizza  
 B.  $\frac{6}{4}$  or  $1\frac{1}{2}$  of a pizza  D.  $\frac{5}{4}$  of a pizza
- 13) Mia weighs 42 pounds. Her dog weighs 18 pounds. How much more does Mia weigh than her dog?
- A. 24 pounds  C. 18 pounds  
 B. 60 pounds  D. 42 pounds
- 14) Gia has 27 stickers. Her friend gives her 18 more. They share all stickers equally. If they split into 3 groups, how many stickers are in each group?
- A. 12  C. 18  
 B. 13  D. 15
- 15) Which is the same as 0.5?
- A.  $\frac{5}{10}$   C.  $\frac{50}{10}$   
 B.  $\frac{5}{100}$   D.  $\frac{50}{1}$



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1) Kai has 9 toy trucks. His brother has 2 times as many. How many trucks does his brother have?

A. 11

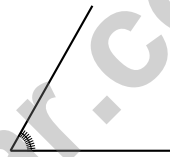
C. 7

B. 9

D. 18

2) Which fraction is not equivalent to  $\frac{1}{3}$ :  $\frac{1}{3}$ ,  $\frac{2}{6}$ ,  $\frac{3}{9}$ , or  $\frac{2}{5}$ ?

3)



The angle spans  $60^\circ$ . How many one-degree angles make this angle?

A.  $60^\circ$

C. 60 one-degree angles

B. 30 one-degree angles

D. 120 one-degree angles

4) Is 11 prime or composite?

A. Neither prime nor composite

C. Both prime and composite

B. Composite

D. Prime



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5) What is  $3 \times \frac{2}{6}$ ?

- A.  $\frac{3}{6}$   
 B.  $\frac{2}{18}$

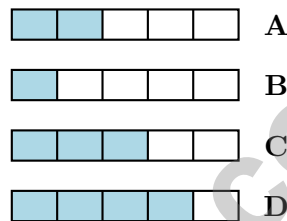
- C.  $\frac{5}{6}$   
 D.  $\frac{6}{6}$  or 1

6) A watermelon weighs 6 kilograms. How many grams does it weigh?

- A. 60  
 B. 600

- C. 6,000  
 D. 60,000

7) Which picture shows  $\frac{2}{5}$  as two unit fractions of  $\frac{1}{5}$ ?



- A. Picture A  
 B. Picture B

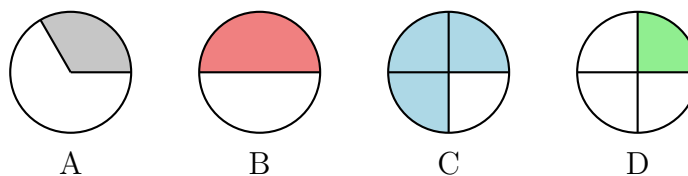
- C. Picture C  
 D. Picture D

8) How many degrees is a three-quarter turn around a circle?

- A.  $90^\circ$   
 B.  $180^\circ$

- C.  $270^\circ$   
 D.  $360^\circ$

9) Which circle shows a fraction equal to  $\frac{1}{2}$ ?

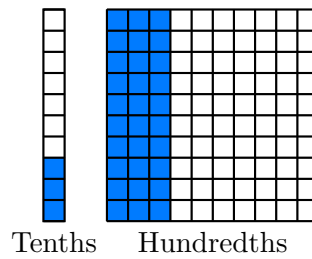


- A. Circle A  
 B. Circle B

- C. Circle C  
 D. Circle D



1) Look at these two grids. Which decimal represents both shaded regions?

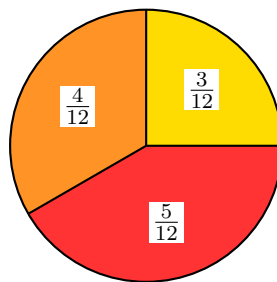


- A. 0.03
- B. 0.30
- C. 3.0
- D. 0.003

2) Which pair shows factors of 24?

- A. 3 and 8
- B. 4 and 5
- C. 5 and 5
- D. 2 and 10

3) A pie chart shows three slices:  $\frac{3}{12}$ ,  $\frac{4}{12}$ , and  $\frac{5}{12}$ . What fraction do these three slices make?



- A.  $\frac{12}{36}$
- B.  $\frac{12}{12}$  or 1 whole pie
- C.  $\frac{7}{12}$
- D.  $\frac{11}{12}$





## 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 C is correct.** (4.MD.B.4) Count how many leaves measured 1 inch (which is the same as  $\frac{2}{2}$  inch). We find 3 leaves with this length.
- 2) **Choice B is correct.** (4.MD.C.5) An angle that measures  $145^\circ$  is made of 145 one-degree angles.
- 3) **Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest thousand. Look at the hundreds digit: 8. Since  $8 \geq 5$ , we round UP! The thousands digit changes from 6 to 7, so the answer is **57,000**. ✓
- 4) **Choice D is correct.** (4.MD.A.3) Use  $P = 2\ell + 2w = 36$  with  $w = 8$ :  $2\ell + 2(8) = 36$ . Solve:  $2\ell + 16 = 36$ , so  $2\ell = 20$ , thus  $\ell = 10$  m.
- 5) **The correct answer is 15.** (4.OA.A.2) The bar model shows Jackson's bar is 3 equal pieces, each the size of Harper's 5 seashells. Multiply:  $3 \times 5 = 15$  seashells.
- 6) **The correct answer is 1.** (4.NF.B.3) Add the numerators:  $5 + 1 = 6$ . We get  $\frac{6}{6}$ , which equals 1 whole.
- 7) **Choice B is correct.** (4.MD.C.7) The two folds meet at a point. Combine their angles:  $70^\circ + 20^\circ = 90^\circ$ .
- 8) **Choice A is correct.** (4.NF.A.1) Multiply both top and bottom by 2:  $\frac{1}{4} = \frac{1 \times 2}{4 \times 2} = \frac{2}{8}$ .
- 9) **Choice C is correct.** (4.G.A.2) An equilateral triangle has all three sides equal in length. The tick marks on all three sides confirm that each side is the same length, making this an equilateral triangle. The answer is C.
- 10) **Choice C is correct.** (4.NF.B.4) To find the missing number, think: How many copies of  $\frac{1}{5}$  do we need to make  $\frac{3}{5}$ ? We need 3 copies. So the equation is  $3 \times \frac{1}{5} = \frac{3}{5}$ .
- 11) **Choice D is correct.** (4.NBT.A.2) "Seventy-eight thousand" = 78,000, so the full number is 78,412. The digit 8 is in the thousands place ✓
- 12) **Choice B is correct.** (4.NF.B.4) Tommy eats  $\frac{1}{4}$  pizza 6 times a week. Multiply:  $6 \times \frac{1}{4} = \frac{6 \times 1}{4} = \frac{6}{4} = 1\frac{1}{2}$ . The answer is  $1\frac{1}{2}$  of a pizza.
- 13) **Choice A is correct.** (4.MD.A.2) Mia weighs 42 pounds and her dog weighs 18 pounds. Subtract to compare:  $42 - 18 = 24$  pounds. Mia weighs 24 pounds more.
- 14) **Choice D is correct.** (4.OA.A.3) Two steps! Step 1: combine the stickers:  $27 + 18 = 45$ . Step 2: split into 3 equal groups:  $45 \div 3 = 15$  stickers per group.
- 15) **Choice A is correct.** (4.NF.C.5) Five tenths equals one-half, which is 0.5. The other options don't equal this.
- 16) **Choice C is correct.** (4.NF.C.5) On a number line from 0 to 1:  $0.2 < 0.5 < 0.8$ . The value 0.5 is halfway between 0 and 1, right in the middle!
- 17) **The correct answer is A, E.** (4.NF.C.5) Option A:  $\frac{50}{100} = 0.50$ . Option E:  $\frac{50}{100} = 0.5$  (trailing zero doesn't change the value). The other options equal 0.05, not 0.50.
- 18) **Choice D is correct.** (4.NBT.A.1) The digit 5 is in the thousands place. Its value is  $5 \times 1,000 = 5,000$ . ✓
- 19) **Choice D is correct.** (4.NBT.B.5) Distribute and add:  $26 \times (10 + 2) = 260 + 52 = 312$  tiles.
- 20) **Choice B is correct.** (4.NF.B.3) Start with whole parts:  $3 - 1 = 2$ . For fractions:  $\frac{3}{4} - \frac{2}{4} - \frac{3}{4} = \frac{3}{4} - \frac{5}{4}$ . Since the fractions are being subtracted from a whole (this becomes 2 wholes minus fractions), regroup:  $2\frac{3}{4} = 1\frac{7}{4}$ , then  $1\frac{7}{4} - \frac{5}{4} = 1\frac{2}{4}$ .
- 21) **Choice C is correct.** (4.MD.C.5) The hour hand moves  $30^\circ$  per hour because  $360^\circ \div 12 \text{ hours} = 30^\circ$ .
- 22) **Choice A is correct.** (4.NF.A.1)  $\frac{2}{100}$  is tiny (close to 0), while  $\frac{99}{100}$  is almost 1. So  $\frac{2}{100} < \frac{99}{100}$ . The benchmark fractions 0 and 1 show the comparison clearly.
- 23) **The correct answer is 2.** (4.MD.C.5) An angle is formed by 2 rays that share a vertex.
- 24) **Choice B is correct.** (4.NF.B.4) Making the recipe 4 times means we multiply by 4. We get  $4 \times \frac{2}{3} = \frac{8}{3}$  cups of flour.
- 25) **Choice A is correct.** (4.NBT.B.4) Estimate:  $49,000 + 31,000 \approx 80,000$ . Then add carefully:  $48,765 + 31,234 = 79,999$ .
- 26) **Choice C is correct.** (4.NF.B.3) At the bake sale, cookies were sold over two time periods. Step 1: Add morning and afternoon sales:  $\frac{7}{12} + \frac{3}{12} = \frac{10}{12}$ . Step 2: Find what remains unsold:  $\frac{12}{12} - \frac{10}{12} = \frac{2}{12}$ .
- 27) **Choice D is correct.** (4.OA.B.4) Subtract 10 each time: 100, 90, 80, 70, 60, 50. The 6th term is 50.



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**A Note From Your Math Friend**

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**Hi, Math Star!**

◇ Wow! You finished 8 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 8 tests, you learned that trying is the most important thing. ★

**Look What You Did!**

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

**Big tip for test day:** take your time. Read each problem twice. Show your work. Check your answer. You can do this!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Friend

# 8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, 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 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.

## TOPICS COVERED

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



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Strengthens Critical Thinking & Problem Solving



Encourages Independent Learning



Prepares Students for Future Success