

# 5 Vermont VTCAP

Standards-Aligned Review with  
Mixed Practice and Answer Key



# 5 Vermont VTCAP Grade 4 Math Practice Tests

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



Five 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!

Five steady rounds on the Green Mountain math route

This book gives you five 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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) A toy car travels  $\frac{2}{10}$  meter in one roll. How far does it travel in 7 rolls?

- A.  $\frac{2}{70}$  meter  
 B.  $\frac{14}{10}$  meters (or  $1\frac{2}{5}$  meters)

- C.  $\frac{7}{10}$  meter  
 D.  $\frac{14}{70}$  meter

2) A school gym has 14 benches. Each bench seats 35 people. How many people can sit on all the benches?

- A. 490 people  
 B. 420 people

- C. 560 people  
 D. 630 people

3) How many factor pairs does 28 have?

4) A clock shows two times. From 12 o'clock to the minute hand's position is  $54^\circ$ . From that position to 6 o'clock is another  $126^\circ$ . What is the angle from 12 o'clock to 6 o'clock?

- A.  $72^\circ$   
 B.  $180^\circ$

- C.  $126^\circ$   
 D.  $90^\circ$

5) Ava measured the widths of leaves in fourths of an inch. Her data:  $\frac{1}{4}, \frac{2}{4}, \frac{2}{4}, \frac{3}{4}, \frac{2}{4}$ . When plotted, how many X marks appear at  $\frac{2}{4}$  inch?

- A. 1  
 B. 2

- C. 3  
 D. 4



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- 6) Eli has  $2\frac{4}{10}$  meters of fabric. He buys  $3\frac{5}{10}$  more meters. How much fabric does he have now?
- A.  $5\frac{9}{10}$  meters                       C.  $5\frac{8}{10}$  meters  
 B. 6 meters                                 D.  $6\frac{1}{10}$  meters
- 7) An art supply store has 5 paintbrush sets. It has 3 times as many markers as paintbrush sets. It also has 2 times as many colored pencils as markers. How many colored pencils does the store have?
- A. 10     C. 25  
 B. 15     D. 30
- 8) Which ordering is correct?
- A.  $\frac{4}{5} > \frac{4}{6} > \frac{4}{8}$      C.  $\frac{4}{5} = \frac{4}{6} = \frac{4}{8}$   
 B.  $\frac{4}{8} > \frac{4}{6} > \frac{4}{5}$      D.  $\frac{4}{6} > \frac{4}{5} > \frac{4}{8}$
- 9) A student wrote:  $\frac{3}{10} + \frac{3}{100} = \frac{6}{110}$ . What is the correct answer?
- A.  $\frac{33}{100}$      C.  $\frac{6}{110}$  (student is correct)  
 B.  $\frac{6}{100}$      D.  $\frac{30}{100}$
- 10) A toy store received 2,016 action figures in a shipment. They need to pack them into 9 boxes equally. How many figures go in each box?
- A. 224     C. 220  
 B. 228     D. 216



11) Ava splits a granola bar into 6 equal pieces. She gives away 4 pieces. Write the fraction given away as a sum of unit fractions.

A.  $\frac{4}{4}$

B.  $\frac{4}{6}$

C.  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$

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

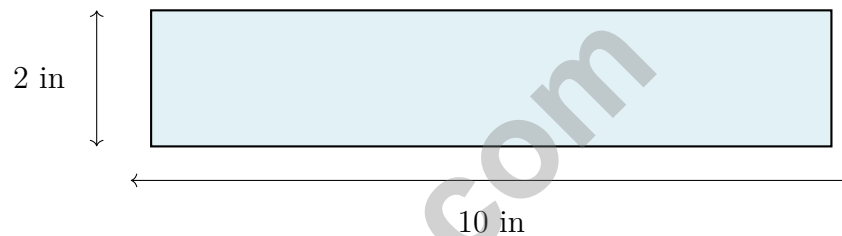
12) Ava had  $\frac{7}{8}$  of a chocolate bar. She gave  $\frac{2}{8}$  to her friend. How much does she have left?

A.  $\frac{5}{8}$

B.  $\frac{9}{8}$

C.  $\frac{5}{16}$

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



13)

What is the perimeter of the rectangle shown?

A. 12 in

B. 24 in

C. 20 in

D. 30 in

14) A rope is 12 feet long. How many yards is this?

A. 2

B. 3

C. 4

D. 6

15) A school buys 240 pencils. They distribute them equally to 5 grades. Each grade then uses 15 pencils for practice. Which statements are true?

 A. Each grade receives 48 pencils.

 B. Each grade receives 50 pencils.

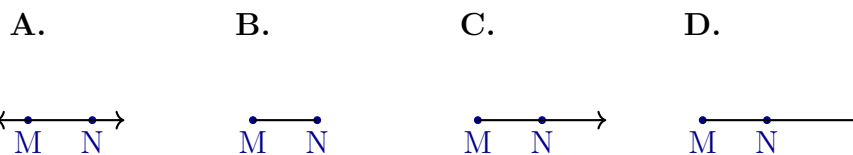
 C. After practice, each grade has 33 pencils left.

 D. After practice, each grade has 35 pencils left.

 E. The school distributed 300 pencils in total.


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1) Which diagram shows line segment  $MN$ ?

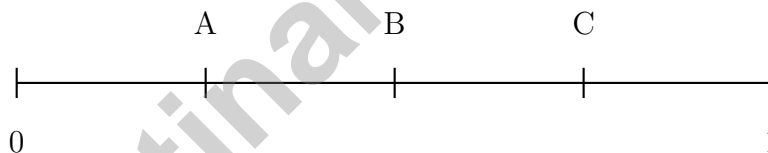


- |                                       |                                       |
|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> A. Diagram A | <input type="checkbox"/> C. Diagram C |
| <input type="checkbox"/> B. Diagram B | <input type="checkbox"/> D. Diagram D |

2) A baker uses  $\frac{3}{4}$  cup of flour, then adds  $\frac{2}{4}$  cup more. How much flour total?

- |  |  |
|--|--|
| <input type="checkbox"/> A. $\frac{5}{8}$ cup                    | <input type="checkbox"/> C. $\frac{1}{4}$ cup  |
| <input type="checkbox"/> B. $\frac{5}{4}$ or $1\frac{1}{4}$ cups | <input type="checkbox"/> D. $\frac{6}{4}$ cups |

3) Where does 0.5 belong on this number line?



- |                                       |   |
|---------------------------------------|---|
| <input type="checkbox"/> A. At mark A | <input type="checkbox"/> C. At mark C     |
| <input type="checkbox"/> B. At mark B | <input type="checkbox"/> D. Beyond mark C |

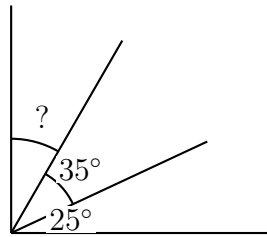
4) Noah had  $3\frac{2}{6}$  meters of string. He added  $1\frac{4}{6}$  meters more. How long is the string now?

- |   |   |
|---|---|
| <input type="checkbox"/> A. $4\frac{1}{6}$ meters | <input type="checkbox"/> C. 5 meters              |
| <input type="checkbox"/> B. $4\frac{5}{6}$ meters | <input type="checkbox"/> D. $5\frac{1}{6}$ meters |



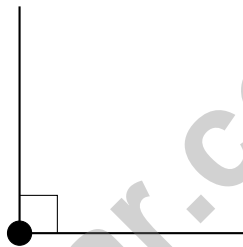
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- 5) A right angle measures  $90^\circ$ . It is divided into three parts: the first is  $25^\circ$ , the second is  $35^\circ$ . What is the measure of the third part?



- A.  $30^\circ$ 
 C.  $90^\circ$   
 B.  $60^\circ$ 
 D.  $10^\circ$

6)



Which of the following has the same size as the angle shown?

- A. An acute angle
  C. An obtuse angle  
 B. A right angle
  D. A straight angle
- 7) A growing shape pattern shows: Figure 1 has 2 squares, Figure 2 has 5 squares, Figure 3 has 8 squares. Following the pattern, how many squares are in Figure 6?



1) Which set of unit fractions adds up to  $\frac{5}{6}$ ?

A. Five  $\frac{1}{6}$ 's

C. Five  $\frac{1}{12}$ 's

B. Six  $\frac{1}{5}$ 's

D. Two  $\frac{1}{6}$ 's

2) Ava wants to convert 5 kilometers to meters. What is the correct answer?

A. 500

C. 50,000

B. 5,000

D. 500,000

3) A figure that has more than 4 lines of symmetry must be which of the following?

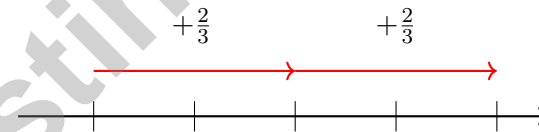
A. A triangle

C. A regular polygon with 5 or more sides or a circle

B. A quadrilateral

D. A square

4) A number line shows hops from 0 to  $\frac{2}{3}$ , then another hop to  $\frac{4}{3}$ . What operation does this show?



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

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

B.  $\frac{1}{3} + \frac{1}{3}$

D.  $\frac{4}{3} - \frac{1}{3}$

5) What is  $2 \times \frac{4}{5}$ ?

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

C.  $\frac{4}{10}$

B.  $\frac{6}{5}$

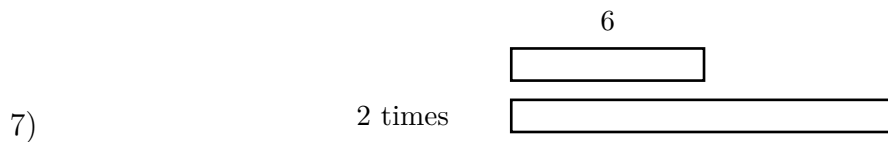
D.  $\frac{8}{5}$  or  $1\frac{3}{5}$



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6) Rio says that  $\frac{2}{3} > \frac{2}{5}$ . Is Rio correct?

- A. Yes, Rio is correct                       D. Cannot determine without a picture  
 B. No, they are equal  
 C. No,  $\frac{2}{3} < \frac{2}{5}$



Miguel has 6 toy cars. Diego has 2 times as many toy cars. How many cars does Diego have?

- A. 8     C. 16  
 B. 18     D. 12
- 8) Mia's bedroom window is a rectangle. The length is 4 feet and the width is 3 feet. What is the area of the window?
- A. 7 sq ft                                       C. 14 sq ft  
 B. 12 sq ft                                     D. 21 sq ft
- 9) Order these decimals from least to greatest: 0.72, 0.27, 0.70, 0.07.
- A. 0.07, 0.27, 0.70, 0.72                       C. 0.27, 0.07, 0.70, 0.72  
 B. 0.72, 0.70, 0.27, 0.07                       D. 0.07, 0.70, 0.27, 0.72



## 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.NF.B.4) A toy car travels  $\frac{2}{10}$  meter in one roll. After 7 rolls, it travels  $7 \times \frac{2}{10} = \frac{14}{10}$  meters.
- Choice A is correct.** (4.NBT.B.5) Distribute:  $14 \times (30 + 5) = 420 + 70 = 490$  people.
- The correct answer is 3.** (4.OA.B.4) Find every pair that multiplies to 28:  $1 \times 28$ ,  $2 \times 14$ ,  $4 \times 7$ . (Note: 3, 5, and 6 don't divide 28 evenly.) So there are **3** factor pairs.
- Choice B is correct.** (4.MD.C.7) From 12 o'clock to 6 o'clock is a straight line. Add both angles:  $54^\circ + 126^\circ = 180^\circ$ .
- Choice C is correct.** (4.MD.B.4) Count how many times  $\frac{2}{4}$  inch appears in the data: it shows up **3** times.
- Choice A is correct.** (4.NF.B.3) Add the wholes:  $2 + 3 = 5$ . Add the fractions:  $\frac{4}{10} + \frac{5}{10} = \frac{9}{10}$ . The total is **5**  $\frac{9}{10}$  meters.
- Choice D is correct.** (4.OA.A.1) Build it in two steps. Step 1: markers =  $5 \times 3 = 15$ . Step 2: colored pencils are 2 times the markers, so  $15 \times 2 = 30$  colored pencils.
- Choice A is correct.** (4.NF.A.1) All have numerator 4. Larger denominators give smaller pieces: fifths > sixths > eighths. So  $\frac{4}{5} > \frac{4}{6} > \frac{4}{8}$ .
- Choice A is correct.** (4.NF.C.5) The student tried to add the denominators, which is wrong! The correct way: convert  $\frac{3}{10} = \frac{30}{100}$ , then add:  $\frac{30}{100} + \frac{3}{100} = \frac{33}{100}$ .
- Choice A is correct.** (4.NBT.B.6) Divide:  $20 \div 9 = 2$  r2, bring down the 1 to get  $21 \div 9 = 2$  r3, bring down the 6 to get  $36 \div 9 = 4$ . Each box holds **224** action figures.
- Choice C is correct.** (4.NF.B.3) Ava gave away 4 pieces out of 6 equal pieces, which is  $\frac{4}{6}$ . As a sum of unit fractions:  $\frac{4}{6} = \underbrace{\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}}_{4 \text{ copies}}$ .
- Choice A is correct.** (4.NF.B.3) Ava gives away  $\frac{2}{8}$  from her  $\frac{7}{8}$ . Subtract:  $7 - 2 = 5$  eighths left. Answer:  $\frac{5}{8}$ .
- Choice B is correct.** (4.MD.A.3) From the diagram: 10 in long and 2 in wide. Perimeter =  $2(10) + 2(2) = 20 + 4 = 24$  in.
- Choice C is correct.** (4.MD.A.1) Since 1 yard = 3 feet, divide:  $12 \div 3 = 4$  yards. The answer is **4** yards.
- The correct answer is A, C.** (4.OA.A.3) Two steps lead to two true statements! Step 1:  $240 \div 5 = 48$  pencils per grade—that matches choice A. Step 2:  $48 - 15 = 33$  left after practice—that matches choice C. Choice B (50) and D (35) come from wrong arithmetic, and E confuses “240 distributed” with “300 total.”
- Choice C is correct.** (4.NF.C.5) 0.68 uses both the tenths place (the 6) and the hundredths place (the 8), so it equals  $\frac{68}{100}$  or sixty-eight hundredths.
- Choice A is correct.** (4.NF.B.3) The gardener needs soil but already has some. Find how much more is needed by subtracting what he has from what's needed:  $\frac{6}{4} - \frac{2}{4} = \frac{4}{4}$  more bags of soil are needed.
- Choice D is correct.** (4.NBT.A.1) In 2,345, the thousands digit is 2. Each thousands block represents 1,000, so Maya used **2** thousands blocks. ✓
- Choice C is correct.** (4.NF.B.3) We have  $\frac{5}{12}$  and need to reach  $\frac{8}{12}$ . Missing:  $8 - 5 = 3$ , so the answer is  $\frac{3}{12}$ . ✓
- Choice C is correct.** (4.NF.C.5) Count the shaded squares: 7 full columns (that's 70 squares) plus 3 extra squares make 73 squares total. So the decimal is 73 hundredths = 0.73.
- Choice B is correct.** (4.MD.C.5) The angle is marked from  $0^\circ$  to  $30^\circ$ , so it contains **30** one-degree angles.
- Choice D is correct.** (4.OA.A.2) Working backwards. The brother has 24 marbles, which is 3 times Grace's amount, so  $3 \times ? = 24$ . Divide to find Grace's amount:  $24 \div 3 = 8$  marbles.
- Choice C is correct.** (4.G.A.3) The letter *H* is balanced in two directions! A vertical line down the middle splits it into matching left and right halves, and a horizontal line across the middle splits it into matching top and bottom halves. So *H* has **2** lines of symmetry.
- Choice A is correct.** (4.MD.C.5) Divide the degrees by 360 to get the fraction:  $\frac{60}{360} = \frac{1}{6}$  (simplifying by 60). Answer:  $\frac{1}{6}$ .
- The correct answer is 22.** (4.OA.B.4) Start at 2 and add 5 four times: 2, 7, 12, 17, **22**. The 5th term is **22**.



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Inventor's Workshop Note

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## Hi, Math Inventor!

◇ 5 practice tests. 5 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

### Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

**Inventor tip:** on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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 Inventor

# 5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

With 5 full-length practice tests, a variety of question types, and detailed answer explanations, students get the practice they need to understand math, strengthen critical thinking, and perform their best on test day and beyond.

Ideal 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.



### 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
- ✓ Word Problems
- ✓ And More!



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5 Full-Length Practice Tests



Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included

A+