

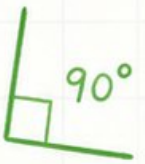
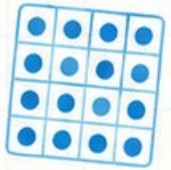
# 10

$$7 \times 8 = 56$$

$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$



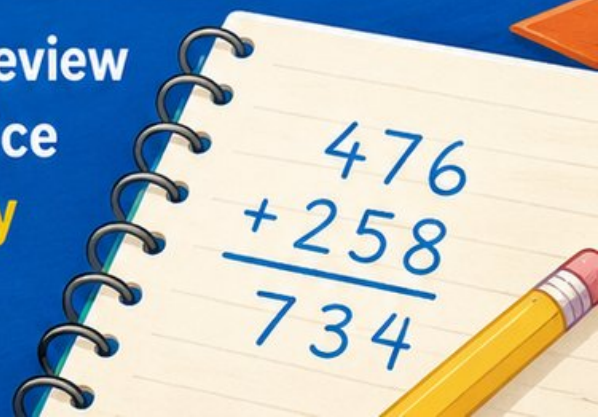
$$\frac{3}{4}$$



# Vermont VT CAP GRADE 4 MATH

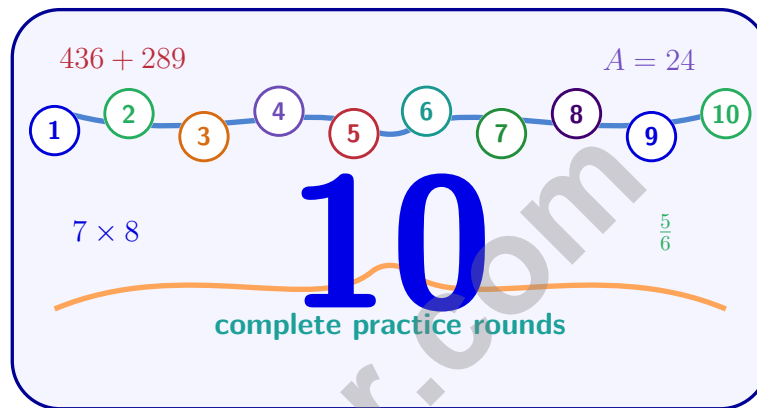
## PRACTICE TESTS

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



# 10 Vermont VTCAP Grade 4 Math Practice Tests

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



Ten 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!

Ten steady rounds on the Green Mountain math route

This book gives you ten 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?

Ten tests, 300 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 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Vermont book.
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.

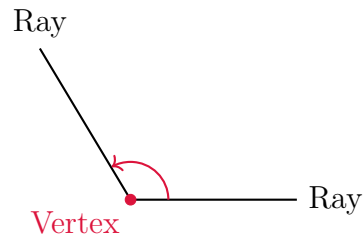


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For more practice  
& answers

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1) Look at this angle:



What type of angle is shown?

- A. An acute angle
- B. A right angle
- C. An obtuse angle
- D. A straight angle
- 2) A student uses a protractor to measure two adjacent angles at a vertex. One angle is  $41^\circ$  and the other is  $139^\circ$ . What is the combined measure of both angles?
- A.  $98^\circ$
- B.  $139^\circ$
- C.  $180^\circ$
- D.  $41^\circ$
- 3) A child ate  $1\frac{3}{4}$  cookies and his sister ate  $\frac{2}{4}$  cookies. How many cookies did they eat together?
- A.  $2\frac{1}{4}$
- B.  $1\frac{1}{4}$
- C.  $1\frac{3}{4}$
- D.  $\frac{5}{4}$
- 4) Ming has 4 boxes of crayons. Each box has 18 crayons. How many crayons does Ming have?
- A. 44
- B. 82
- C. 64
- D. 72



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5) A bake sale made 1,800 cookies. They filled boxes with 9 cookies in each box. How many full boxes were made?

A. 100

C. 200

B. 150

D. 250

6) A runner completes one lap in 3 minutes. How many minutes will it take to complete 9 laps at the same pace?

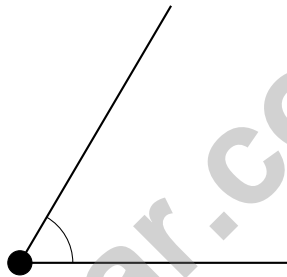
A. 12 minutes

C. 27 minutes

B. 18 minutes

D. 30 minutes

7)



Comparing this angle to a straight angle, this angle is:

A. much smaller

C. slightly smaller

B. about the same size

D. much larger

8) Which pair are both factors of 36?

A. 4 and 8

C. 6 and 9

B. 6 and 7

D. 8 and 9



9) This place-value chart shows a number. Write it in expanded form:

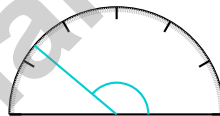
Thousands	Hundreds	Tens	Ones
6	0	8	3

- A.  $6,000 + 800 + 30$ 
 C.  $6,000 + 80 + 3$   
 B.  $6,000 + 800 + 3$ 
 D.  $6 + 0 + 8 + 3$
- 10) A toy store has 45 toy cars. They receive 15 more cars. Then they sell 20 cars. How many cars are left?

- A. 30
  C. 25  
 B. 35
  D. 40
- 11) Which letter has a line of symmetry?

- A. *F*
 C. *A*  
 B. *L*
 D. *G*

12)



What is the measure of the angle shown?

- A. 130 degrees
  C. 160 degrees  
 B. 150 degrees
  D. 140 degrees
- 13) A repeating pattern is: apple, banana, orange, apple, banana, orange. What is the 7th item?
- A. Grape
  C. Orange  
 B. Banana
  D. Apple



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1) What is  $2\frac{1}{3} - 1\frac{2}{3}$ ? (Hint: You may need to regroup.)

- A.  $\frac{1}{3}$   
 B.  $\frac{2}{3}$

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

2) Leo reads 2 books. His sister reads 5 times as many books as Leo. How many books does his sister read?

- A. 3  
 B. 7

- C. 5  
 D. 10

3) Which angle is the largest?

Angle X



Angle Y



Angle Z



- A. Angle X  
 B. Angle Y

- C. Angle Z  
 D. All are equal

4) What is  $29 \times 12$ ?

- A. 406  
 B. 522

- C. 464  
 D. 348

5) Which is the smallest fraction?

- A.  $\frac{2}{3}$   
 B.  $\frac{2}{4}$

- C.  $\frac{2}{6}$   
 D.  $\frac{2}{5}$



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6) A recipe calls for  $\frac{3}{4}$  cup of sugar. If Dylan is making 5 batches, how much sugar does he need?

A.  $\frac{3}{20}$  cup

B.  $\frac{8}{4}$  cups

C.  $\frac{15}{20}$  cup

D.  $\frac{15}{4}$  cups or  $3\frac{3}{4}$  cups

7) Ava eats 3 of 8 equal pizza slices. What fraction of the pizza did she eat?

8) Which number sentence is true?

A.  $\frac{3}{4} = \frac{9}{12}$

B.  $\frac{2}{5} = \frac{4}{12}$

C.  $\frac{1}{4} = \frac{2}{12}$

D.  $\frac{5}{6} = \frac{10}{11}$

9) Which type of triangle has exactly one right angle and two acute angles?

 A. Acute triangle B. Obtuse triangle C. Right triangle D. Equilateral triangle

10) A recipe calls for 8 ounces of chocolate. How many pounds is this?

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

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

C. 1

D. 2

11) A carton of juice contains 3 liters. How much juice is in 9 cartons?

A. 12 L

B. 18 L

C. 27 L

D. 30 L



1) What is  $52 \times 15$ ?

A. 520

C. 650

B. 830

D. 780

2) A bakery sold 12,345 cookies on Monday and 8,567 cookies on Tuesday. How many cookies did they sell in total?

A. 20,912

C. 20,812

B. 21,012

D. 21,112

3) A rope is 48 inches long. If it is cut into 6 equal pieces, how long is each piece?

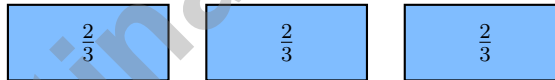
A. 6 inches

C. 42 inches

B. 8 inches

D. 54 inches

4) A model shows 3 tiles, each equal to  $\frac{2}{3}$ . What is the total?



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

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

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

D.  $\frac{2}{9}$

5) Diego cut a submarine sandwich into 8 equal pieces and ate 4 pieces. Maya cut an identical sandwich into 4 equal pieces and ate 2 pieces. Did they eat equivalent amounts?

A. Yes, both ate  $\frac{1}{2}$

C. No, Diego ate more

B. Yes, both ate  $\frac{1}{4}$

D. No, Maya ate more



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6) Kai is at a lemonade stand. Pitcher A holds 0.75 liters. Pitcher B holds 0.57 liters. Which pitcher holds more lemonade?

- A. Pitcher A (0.75 L)                       C. Both hold the same amount  
 B. Pitcher B (0.57 L)                       D. Pitcher B holds twice as much

7) Which pair of line segments is perpendicular?

A.



B.



C.



D.



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

8) A book bag weighs 5 kilograms. How many grams is this?

- A. 500     C. 50,000  
 B. 5,000      D. 500,000

9) A triangle has angles  $50^\circ$  and  $60^\circ$ . What is the third angle?

10) How many multiples of 10 are there from 1 to 50?

- A. 3     C. 5  
 B. 4     D. 6



## 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.G.A.1) This angle opens wide — wider than a right angle but not as wide as a straight line. That makes it an obtuse angle, which is between  $90^\circ$  and  $180^\circ$ .
- 2) **Choice C is correct.** (4.MD.C.7) These two adjacent angles form a straight line together:  $41^\circ + 139^\circ = 180^\circ$ .
- 3) **Choice A is correct.** (4.NF.B.3) A child and his sister share cookies. Add the amounts:  $1\frac{3}{4} + \frac{2}{4} = 2\frac{1}{4}$  cookies total they ate together.
- 4) **Choice D is correct.** (4.NBT.B.5) Break 18 into tens and ones:  $4 \times (10 + 8) = 40 + 32 = 72$  crayons.
- 5) **Choice C is correct.** (4.NBT.B.6) Divide:  $18 \div 9 = 2$  and  $0 \div 9 = 0$ . The bakery made **200** full boxes of cookies.
- 6) **Choice C is correct.** (4.MD.A.2) One lap takes 3 minutes. For 9 laps, multiply:  $3 \times 9 = 27$  minutes. It will take **27** minutes total.
- 7) **Choice A is correct.** (4.MD.C.5) This angle is much smaller than a straight angle (180 degrees). It appears to be acute or close to right.
- 8) **Choice C is correct.** (4.OA.B.4) For both numbers to be factors, both must divide 36 evenly. Check:  $36 \div 6 = 6 \checkmark$  and  $36 \div 9 = 4 \checkmark$ . Choice A: 8 doesn't divide 36 ( $36 \div 8 = 4 \text{ r } 4$ ); choice B: 7 doesn't divide 36; choice D: 8 doesn't divide 36.
- 9) **Choice C is correct.** (4.NBT.A.2) From the chart: thousands:  $6 \rightarrow 6,000$ , hundreds: 0 (omit), tens:  $8 \rightarrow 80$ , ones:  $3 \rightarrow 6,000 + 80 + 3 \checkmark$
- 10) **Choice D is correct.** (4.OA.A.3) Two steps! Step 1: add the new cars:  $45 + 15 = 60$  cars. Step 2: take away the ones sold:  $60 - 20 = 40$  cars left.
- 11) **Choice C is correct.** (4.G.A.3) The letter A looks the same on both sides of a vertical line running down its middle. Fold it along that line and both sides match perfectly! The answer is letter **A**.
- 12) **Choice D is correct.** (4.MD.C.6) The ray points to the  $140^\circ$  mark. At this measure, the angle is wider than a right angle but not yet flat, so it's obtuse. The answer is **140** degrees.
- 13) **Choice D is correct.** (4.OA.B.4) The pattern repeats every 3 items, like a wheel turning around. To find position 7, divide:  $7 \div 3 = 2$  remainder 1. The remainder 1 tells us we land on the *1st item in the cycle*, which is **apple**. *Quick check:* positions 1, 4, 7 all land on apple.  $\checkmark$
- 14) **The correct answer is B, C.** (4.NF.C.5) Option B:  $0.6 = \frac{6}{10}$  (six tenths). Option C:  $0.6 = 0.60$  (trailing zeros don't matter). The other options use wrong denominators or different values.
- 15) **Choice C is correct.** (4.NF.C.5) Compare place by place: Write 0.6 as 0.60. Now both have the same number of decimal places. Since  $60 > 59$  hundredths, we have  $0.6 > 0.59$ .
- 16) **Choice C is correct.** (4.NF.B.4) We multiply the whole number by the fraction. Ava has 5 necklaces, each with  $\frac{2}{3}$  meter of beads:  $5 \times \frac{2}{3} = \frac{10}{3}$  meters, which is  $3\frac{1}{3}$  meters.
- 17) **Choice D is correct.** (4.OA.A.1) To find "how many times as many," divide the bigger amount by the smaller. Group 2 has 12, Group 1 has 3, and  $12 \div 3 = 4$ . So Group 2 has **4** times as many counters.
- 18) **Choice D is correct.** (4.MD.B.4) The lowest value on the line plot is 0 inch and the highest is 1 inch. The range is  $1 - 0 = 1$  inch.
- 19) **Choice D is correct.** (4.NF.A.1) Multiply both numerator and denominator by 2 to get a denominator of 10:  $\frac{1}{5} = \frac{1 \times 2}{5 \times 2} = \frac{2}{10}$ .
- 20) **Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest ten. Look at the ones digit: 9. Since  $9 \geq 5$ , we round UP! The tens digit changes from 4 to 5, so the answer is **7,150**.  $\checkmark$
- 21) **Choice C is correct.** (4.NBT.A.1) In 6,217, counting from the right: ones is 7, tens is 1, hundreds is 2, thousands is 6. The tens place contains **1**.  $\checkmark$
- 22) **Choice A is correct.** (4.NF.A.1) Diego started with the whole bar ( $\frac{6}{6}$ ). After giving  $\frac{1}{6}$  away, he has  $\frac{5}{6}$  left. The original ( $\frac{6}{6}$ ) is larger.
- 23) **The correct answer is  $\frac{7}{10}$ .** (4.NF.B.3) Carlos uses 7 pieces out of 10, which is  $\frac{7}{10}$ . As unit fractions:  $\frac{1}{10} + \frac{1}{10} + \dots + \frac{1}{10}$ .  

$\underbrace{\hspace{10em}}_{7 \text{ copies}}$
- 24) **The correct answer is 4.** (4.G.A.2) By definition, a quadrilateral is a four-sided figure. The answer is **4**.



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Notes From the Math Gardener

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## Hi, Math Gardener!

◇ Look at how much you grew! 10 tests is like 10 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

### Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

**Gardener tip:** keep watering your math garden long after the test. Every habit you built will grow with you for years!

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 Gardener

# PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, boost confidence, and succeed in the classroom and beyond. With 10 full-length practice tests that reflect real test formats, students get the targeted practice they need to master key concepts, improve problem-solving abilities, and achieve their goals.

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- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
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