

8

Vermont VTCAP

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



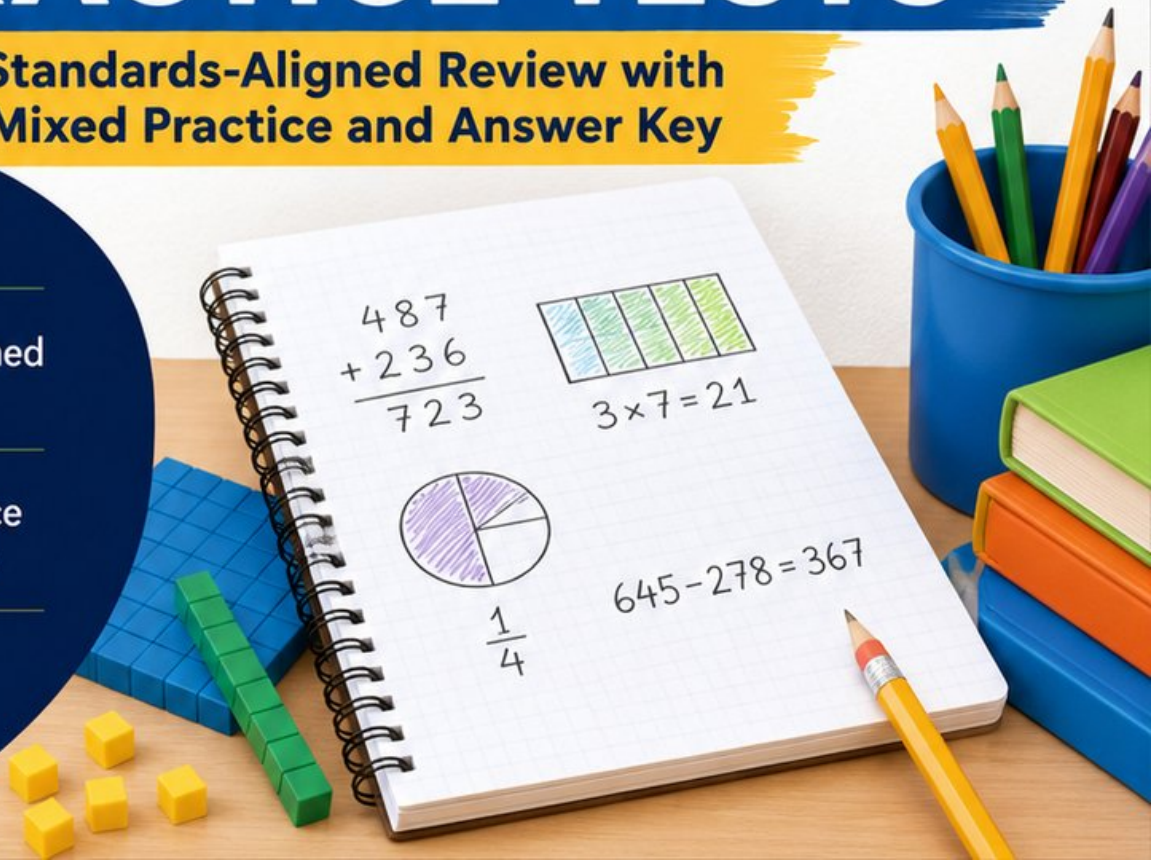
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 Vermont VTCAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight complete 30-question practice rounds for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Vermont, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the Vermont VTCAP. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

Vermont has maple woods, covered bridges, ski hills, green valleys, and careful school routines, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and check each step like a careful trail marker.

Your Vermont Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

Eight rounds. Thirty questions each. One careful step at a time.

How to Use This Book

A simple eight-round routine for confident review

Use this Vermont book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

Best review habit: In Vermont, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



What Is Inside the Eight Tests?

Mixed Grade 3 math practice for the VTCAP

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

Vermont focus: The practice path starts with maple woods, covered bridges, ski hills, green valleys, and careful school routines. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



Scan me!
For more practice
& answers

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1) Which fraction equals $\frac{1}{4}$?

- A. $\frac{2}{4}$
 B. $\frac{2}{8}$

- C. $\frac{1}{8}$
 D. $\frac{3}{8}$

Addition

2)

Hundreds	Tens	Ones
4	7	8
+	+	+
2	5	4

Using the place-value chart, what is $478 + 254$?

- A. 722
 B. 742

- C. 832
 D. 732

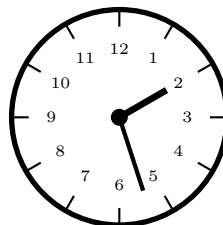
3) Look at this pattern: $3 \times 10 = 30$, $3 \times 20 = 60$, $3 \times 30 = 90$. Using the pattern, what is 3×70 ?

- A. 37
 B. 73

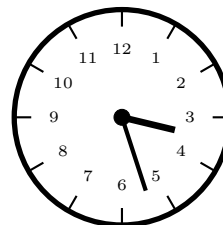
- C. 210
 D. 2100

4) Which clock shows 3 : 27?

Clock 1



Clock 2



- A. Clock 1
 B. Clock 2

- C. Neither
 D. Both



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9) What is 555 rounded to the nearest 10?

A. 550

C. 560

B. 555

D. 600

10) What is 6×4 ?

11) A composite shape has areas given as 20 sq units and 15 sq units. What is the total area?

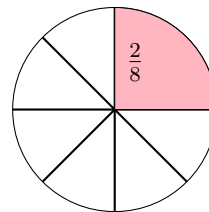
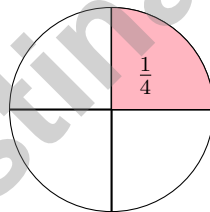
A. 5 sq units

C. 300 sq units

B. 35 sq units

D. 40 sq units

12) Look at the pies. Which statement is true?



A. They show the same amount

C. The right pie is larger

B. The left pie is larger

D. They are not equal



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3) Noah has 12 toy cars. He wants to make 2 equal rows. How many cars will be in each row?

A. 5

C. 10

B. 14

D. 6

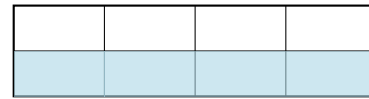
4) A rectangle has perimeter 30 inches and length 10 inches. Find the width.



5) Two rectangles are divided into equal parts and some parts are shaded. Rectangle X is divided into 4 equal parts with 2 parts shaded. Rectangle Y is divided into 8 equal parts with 4 parts shaded. Do the two rectangles have the same amount of area shaded?



Rectangle X: 2 out of 4 shaded



Rectangle Y: 4 out of 8 shaded

A. Rectangle X has more area shaded

C. Both have the same area shaded

B. Rectangle Y has more area shaded

D. Cannot tell by looking

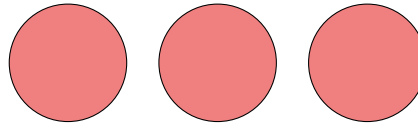


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1) A composite floor shape is split by dashed lines into four rectangles. The areas are 8 sq units, 6 sq units, 6 sq units, and 4 sq units. What is the total floor area?

- A. 24 sq units C. 48 sq units
 B. 12 sq units D. 18 sq units

2) The circles below are completely shaded. How many wholes do they show?



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

Subtraction Problem

Hundreds	Tens	Ones
6	4	2
—	—	—
2	1	5

3)

Using the place-value chart, what is $642 - 215$?

- A. 427 C. 527
 B. 437 D. 447

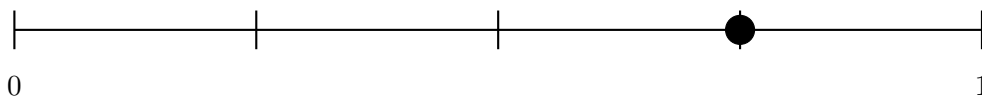
4) Round 267 to the nearest 10.

- A. 260 C. 270
 B. 267 D. 300



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5) On a number line, the point is at $\frac{3}{4}$ of the way from 0 to 1. If the line is divided into 4 equal parts, at which tick mark is the point?

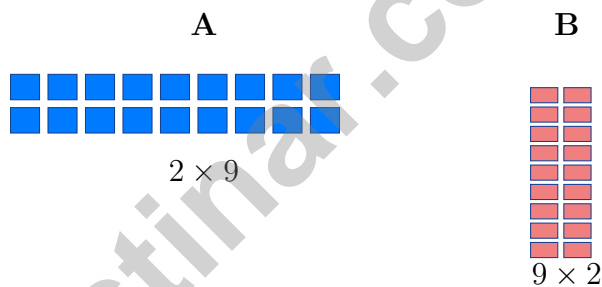


- A. First tick mark
- B. Second tick mark
- C. Third tick mark
- D. Fourth tick mark

6) Which equation is in the same fact family as $6 \times 7 = 42$?

- A. $42 \div 6 = 7$
- B. $42 \div 5 = 8$
- C. $7 \times 6 = 41$
- D. $42 \div 7 = 7$

7) Which statement about these two arrays shows the commutative property?



- A. The arrays show the same property as $9 - 2$.
- B. $2 + 9 = 11$ and $9 + 2 = 11$
- C. Array B has more squares.
- D. $2 \times 9 = 9 \times 2$

8) If $\frac{1}{3} = \frac{2}{6}$, what numerator goes with denominator 6?

Practice Test Answer Keys

How to use this section with a Grade 3 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 B is correct.** **(3.NF.A.3b)** Multiply numerator and denominator by 2: $\frac{1 \times 2}{4 \times 2} = \frac{2}{8}$.
- 2) **Choice D is correct.** **(3.NBT.A.2)** Ones: $8 + 4 = 12$ (write 2, carry 1). Tens: $7 + 5 + 1 = 13$ (write 3, carry 1). Hundreds: $4 + 2 + 1 = 7$. Answer: 732.
- 3) **Choice C is correct.** **(3.NBT.A.3)** The pattern shows: each time we multiply by a multiple of 10 that is 10 more, the product increases by 30. From $3 \times 60 = 180$ to 3×70 , we add another 30 to get 210. Or: $3 \times 7 = 21$, then multiply by 10 to get 210.
- 4) **Choice B is correct.** **(3.MD.A.1)** At 3 : 27, the minute hand points to 27 minutes, just past the 5. The hour hand is between 3 and 4, just past 3. Clock 2 shows this accurately.
- 5) **Choice C is correct.** **(3.NF.A.3c)** $16 \text{ fourths} \div 4 \text{ fourths per whole} = 16 \div 4 = 4$ wholes.
- 6) **Choice C is correct.** **(3.G.A.1)** A rectangle has 4 right angles, and a rhombus has 4 equal sides; both are quadrilaterals. They share the attribute of having four sides, even though they differ in other properties.
- 7) **The correct answer is 9 pencils.** **(3.MD.B.4)** Add all X's: $2 + 1 + 3 + 2 + 1 = 9$ pencils total.
- 8) **Choice D is correct.** **(3.OA.A.3)** Divide: $35 \div 5 = 7$ cards per friend.
- 9) **Choice C is correct.** **(3.NBT.A.1)** The ones digit is 5. Since $5 \geq 5$, round up: 555 rounds to 560.
- 10) **The correct answer is 24.** **(3.OA.B.5)** By the commutative property, $4 \times 6 = 6 \times 4 = 24$.
- 11) **Choice B is correct.** **(3.MD.C.7d)** Add the parts: $20 + 15 = 35$ square units.
- 12) **Choice A is correct.** **(3.NF.A.3)** Both pies show the same shaded region. $\frac{1}{4}$ and $\frac{2}{8}$ are equivalent.
- 13) **Choice D is correct.** **(3.OA.D.9)** Multiplying any number by 2 gives an even result, because $2 \times n$ means n groups of 2, and 2 is even. This pattern always holds: even \times any number = even.
- 14) **Choice A is correct.** **(3.MD.C.5a)** A 2×2 square uses 4 unit squares and has equal side lengths. Choices B and C also use 4 unit squares but are not squares with equal side lengths. Choice D uses 6 unit squares.
- 15) **Choice B is correct.** **(3.MD.C.7)** Area = $5 \times 4 = 20$ square meters.
- 16) **Choice C is correct.** **(3.MD.C.5b)** Count the rows: 3 rows. Count across: 5 unit squares in each row. Total: $5 + 5 + 5 = 15$ unit squares cover the rectangle.
- 17) **Choices A and B are correct.** **(3.NF.A.2a)** With denominator 4, there are exactly 4 equal parts (A). The first tick is at $\frac{1}{4}$ (B). The second tick is $\frac{3}{4}$, not $\frac{3}{4}$, so C is false. D is false because there are 4 parts, and E is false because $\frac{1}{4} < \frac{1}{2}$.
- 18) **Choice B is correct.** **(3.NF.A.2)** $\frac{2}{6}$ equals $\frac{1}{3}$ because both represent the same point on the line. You can simplify $\frac{2}{6}$ to $\frac{1}{3}$.
- 19) **Choice D is correct.** **(3.OA.A.1)** The picture shows 3 columns with 4 rectangles in each column. So $3 \times 4 = 12$ rectangles.
- 20) **Choice A is correct.** **(3.NF.A.3d)** One half and two fourths cover equal areas in the bars. They are equivalent fractions.
- 21) **Choice B is correct.** **(3.MD.B.3)** Ty: $6 \times 5 = 30$. Kim: $8 \times 5 = 40$. Fewer: $40 - 30 = 10$.
- 22) **Choice B is correct.** **(3.MD.C.5)** Multiply length by width: $9 \times 5 = 45$ square meters.
- 23) **Choice B is correct.** **(3.MD.C.7b)** Area = length \times width = $7 \times 5 = 35$ square feet. Choice A (12) is the sum $7 + 5$; Choice C (24) is common product error; Choice D (70) is double the area.
- 24) **Choice C is correct.** **(3.MD.C.7c)** Two equal rectangles each have area 14. Add the two parts: $14 + 14 = 28$ square units.
- 25) **The correct answer is 10.** **(3.OA.D.8)** $48 \div 6 = 8$, and $8 + 2 = 10$.
- 26) **Choice D is correct.** **(3.OA.A.4)** Both $5 \times 6 = 30$ and $30 \div 5 = 6$ are in the same fact family.
- 27) **Choice A is correct.** **(3.MD.A.2)** $10 \text{ kg} = 10000 \text{ g}$, which is more than 3000 g.
- 28) **Choice C is correct.** **(3.MD.C.6)** $3 \times 4 = 12$ unit squares.
- 29) **Choice A is correct.** **(3.G.A.2)** The circle is divided into 3 equal parts by lines from the center. The shaded part is one third of the circle.



A Note From Your Math Friend

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.

Jay Daie
Your Math Friend

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PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



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Aligned
Questions



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Question
Types



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Math
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