

# 5 Vermont

## VT CAP

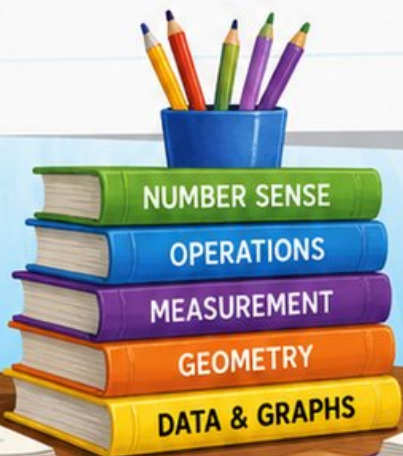
### GRADE 3

# MATH

## PRACTICE TESTS

Standards-Aligned Practice with  
Review, Answer Keys, and Explanations

$$24 \div 3 = 8$$



**5** FULL-LENGTH  
PRACTICE TESTS



STANDARDS-  
ALIGNED  
PRACTICE



DETAILED  
ANSWER KEYS



CLEAR  
EXPLANATIONS  
TO HELP YOU SUCCEED

# 5 Vermont VTCAP Grade 3 Math Practice Tests

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



Five focused 30-question checkpoints for Grade 3 math: facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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# Welcome to the Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

## To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the Vermont VTCAP. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Vermont has maple roads, green hills, covered bridges, and quiet trails that reward patient work. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

### Notice

Circle key words, units, and numbers before you start.

### Build

Use arrays, number lines, equations, tables, or sketches.

### Verify

Ask, "Does this answer fit the question?"

**Five-checkpoint promise:** I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

# How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

**Best review habit:** Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



## What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	Turn missed items into a clear next step.
Standards Reference	See how Vermont Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. That mix gives students practice with quick choices, careful reasoning, and short written answers.



Scan me!  
For more practice  
& answers

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1) A shape is made of two rectangles. Rectangle 1 has area 12 sq units, and Rectangle 2 has area 15 sq units. What is the total area?

- A. 15 sq units                       C. 27 sq units  
 B. 24 sq units                       D. 180 sq units

2) Which list shows skip counting by 4s?

- A. 2, 4, 6, 8, 10                       C. 3, 6, 9, 12, 15  
 B. 5, 10, 15, 20, 25                       D. 4, 8, 12, 16, 20

3)

Container	Volume
Bottle	750 mL
Jug	2 L
Glass	250 mL
Cup	200 mL

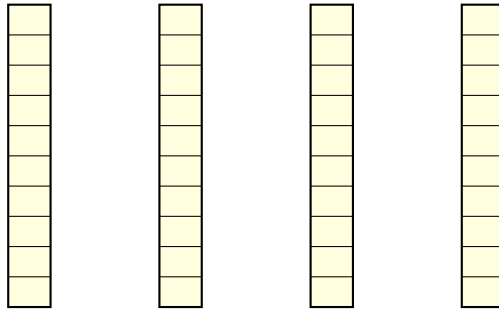
Which container holds the most liquid?

- A. Bottle                       C. Glass  
 B. Jug                       D. Cup



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For more practice  
& answers

4) How many units are shown by these base-ten rods?



$$4 \times 10 = ?$$

- A. 14                       C. 410  
 B. 40                       D. 140
- 5) A library has 7 tables. Each table has 8 books. How many books are on the tables?
- A. 15 books                       C. 49 books  
 B. 64 books                       D. 56 books
- 6) What is the fewest right angles a trapezoid can have?



- 7) A zoo keeper has 36 pounds of food. He divides it equally among 4 animals. How many pounds of food does each animal get?
- A. 9                               C. 32  
 B. 8                               D. 40



8) How many unit fractions of  $\frac{1}{2}$  make a whole?

A. 1

C. 3

B. 2

D. 4

9) Which fraction represents 5 whole items?

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

C.  $\frac{5}{1}$

B.  $\frac{1}{5}$

D.  $\frac{5}{2}$

10) Look at the fraction bars. Which shows  $\frac{1}{3}$  and an equivalent fraction?



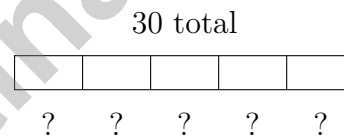
A.  $\frac{2}{6}$

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

B.  $\frac{1}{6}$

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

11) Which division equation matches this bar model showing 30 split into 5 equal parts?



A.  $30 \times 5 = 150$

C.  $5 + 6 = 11$

B.  $30 - 5 = 25$

D.  $30 \div 5 = 6$

12) A rectangle has a length of 10 inches and a width of 6 inches. How many square inches is this rectangle?

A. 16 square inches

C. 60 square inches

B. 32 square inches

D. 30 square inches



Scan me!  
For more practice  
& answers

1) Eli is filling a rectangular mat with colored unit square patches. The mat measures 11 units by 3 units. How many patches will he need?

- A. 14 patches                       C. 33 patches  
 B. 27 patches                       D. 44 patches

2) Each box holds 6 pencils. One box has 6 pencils. Two boxes have 12 pencils. Three boxes have 18 pencils.

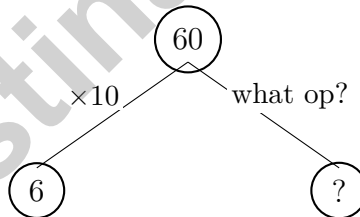
How many pencils are in 5 boxes?

- A. 24                                       C. 36  
 B. 42                                       D. 30

3) What is  $4 \times 7$ ?

- A. 28                                       C. 35  
 B. 32                                       D. 39

4) Look at this number bond. What value should replace the question mark?



- A. 6; divide by 10                       C. 60; add  
 B. 600; multiply by 10                       D. 10; multiply

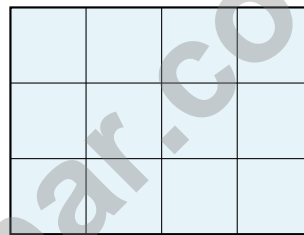


- 5) A rectangular kitchen table is 8 feet long and 6 feet wide. What is the area that the table covers?

- 6) There are 7 groups of students. Each group has 6 students. How many students are there in total?

- A. 13  
 B. 48

- C. 36  
 D. 42



7)

How many unit squares cover the rectangle shown in the grid?



Scan me!  
For more practice  
& answers

1) Talia bought 4 packs of sticker sheets. Each pack has 7 sticker sheets. How many sticker sheets did she buy?

- A. 11 sheets                       C. 24 sheets  
 B. 32 sheets                       D. 28 sheets

2) Which problem does *not* equal 180?

- A.  $9 \times 20$  (equals 180)                       C.  $18 \times 10$  (equals 180)  
 B.  $6 \times 30$  (equals 180)                       D.  $3 \times 50$  (equals 150, not 180)

3) A line plot shows book weights in ounces:  $8, 8\frac{1}{2}, 9, 9\frac{1}{2}, 10$ . Count from the plot shows 1 X at 8 oz, 2 at  $8\frac{1}{2}$  oz, 3 at 9 oz, 2 at  $9\frac{1}{2}$  oz, and 2 at 10 oz. What is the range?

- A. 1 ounce                       C. 2 ounces  
 B.  $1\frac{1}{2}$  ounces                       D.  $2\frac{1}{2}$  ounces

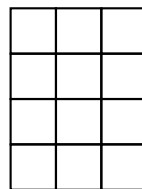
4)



Which color represents odd numbers?

- A. Blue (1, 3, 5)                       C. Both colors  
 B. Red (2, 4)                       D. Neither color

5) Ava is looking at this shape made of unit squares:



How many unit squares cover this shape?

- A. 7 unit squares                       C. 12 unit squares  
 B. 10 unit squares                       D. 15 unit squares



Scan me!  
For more practice  
& answers

6) Which number sentence is true?

A.  $6 \times 4 = 6 + 4$

C.  $6 \times 4 = 4 + 6$

B.  $6 \times 4 = 24 + 1$

D.  $6 \times 4 = 4 \times 6$

7) A bread loaf is cut into 8 equal slices. What fraction is one slice?

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

C.  $\frac{1}{4}$

B.  $\frac{1}{6}$

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

8) A rectangle has a width of 3 feet and a length of 8 feet. The rectangle has 8 rows with 3 unit squares in each row. Find the area by adding:  $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = ?$

A. 11 sq ft

C. 24 sq ft

B. 16 sq ft

D. 32 sq ft

9) What is 367 rounded to the nearest 100?

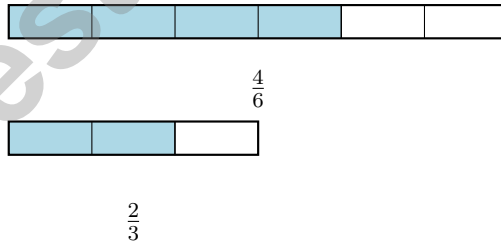
A. 300

C. 400

B. 370

D. 360

10) Which fraction is equivalent to  $\frac{4}{6}$ ?



A.  $\frac{1}{3}$

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

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

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



## 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

- Choice C is correct.** **(3.MD.C.7d)** When a composite shape is divided into non-overlapping rectangles, the total area equals the sum of the individual rectangle areas. Here:  $12 + 15 = 27$  square units.
- Choice D is correct.** **(3.OA.D.9)** Skip counting by 4 means adding 4 each time:  $4 + 4 = 8$ ,  $8 + 4 = 12$ , etc.
- Choice B is correct.** **(3.MD.A.2)**  $2\text{ L} = 2000\text{ mL}$  is the largest volume.
- Choice B is correct.** **(3.NBT.A.3)** Each base-ten rod represents 10. With 4 rods, we have  $4 \times 10 = 40$ .
- Choice D is correct.** **(3.OA.A.1)** 7 tables with 8 books each means 7 groups of 8. So  $7 \times 8 = 56$  books.
- The correct answer is 0 right angles.** **(3.G.A.1)** A trapezoid can have no right angles.
- Choice A is correct.** **(3.OA.A.3)** Divide:  $36 \div 4 = 9$  pounds per animal.
- Choice B is correct.** **(3.NF.A.1)**  $\frac{1}{2} + \frac{1}{2} = \frac{2}{2} = 1$  whole. So 2 unit fractions of  $\frac{1}{2}$  make a whole.
- Choice C is correct.** **(3.NF.A.3c)** 5 wholes =  $\frac{5}{1}$ . Any whole number with denominator 1 equals that number. (A) equals 1, (B) is a unit fraction, (D) is more than 2 but not 5 wholes.
- Choice A is correct.** **(3.NF.A.3b)** Multiply numerator and denominator by 2:  $\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$ . Both bars show the same shaded length.
- Choice D is correct.** **(3.OA.B.6)** A bar model dividing a total into equal parts shows division. 30 split into 5 equal parts means each part is  $30 \div 5 = 6$ .
- Choice C is correct.** **(3.MD.C.5)** Multiply length by width:  $10 \times 6 = 60$  square inches.
- Choice A is correct.** **(3.OA.A.4)** Use the inverse:  $9 \times 4 = 36$ , so  $36 \div 4 = 9$ .
- Choice C is correct.** **(3.OA.D.8)** Step 1: Divide:  $72 \div 8 = 9$  marbles per bag. Step 2: Remaining bags:  $8 - 3 = 5$  bags; kept marbles:  $5 \times 9 = 45$  marbles. (Choice A is step 1 only; choice B is incorrect calculation.)
- Choices B and D are correct.** **(3.NF.A.2b)** The midpoint is  $\frac{3}{6}$ . Points equidistant on either side are  $\frac{2}{6}$  (one sixth below) and  $\frac{4}{6}$  (one sixth above). Distractor  $\frac{1}{6}$  is two sixths below. Distractor  $\frac{5}{6}$  is two sixths above. Distractor  $\frac{3}{6}$  is the midpoint.
- Choice D is correct.** **(3.NBT.A.1)** The ones digit is 3. Since  $3 < 5$ , round down: 513 rounds to 510.
- Choice A is correct.** **(3.NF.A.3d)** Both fractions equal one whole. Two halves and three thirds both fill the entire bar.
- Choice C is correct.** **(3.MD.B.3)** Multiply the number of units by the scale:  $4 \times 5 = 20$  books.
- Choice C is correct.** **(3.MD.A.1)** From 3 : 14 to 3 : 56:  $56 - 14 = 42$  minutes.
- Choice C is correct.** **(3.MD.C.5a)** Length times width:  $5 \times 3 = 15$  unit squares of 1 inch by 1 inch.
- The correct answer is  $\frac{3}{4}$ .** **(3.G.A.2)** Three shaded parts out of 4 equal parts is  $\frac{3}{4}$ .
- Choice D is correct.** **(3.OA.C.7)** Skip-counting by 2s: 0, 2, 4, 6, 8, 10. So  $2 \times 5 = 10$ .
- The correct answer is 4 units.** **(3.MD.C.7)** Area = length  $\times$  width. Since  $24 = 6 \times w$ , the missing width is 4 units.
- Choice A is correct.** **(3.NBT.A.2)** Ones:  $4 - 9$  requires regrouping, so  $14 - 9 = 5$ . Tens:  $2 - 8$  requires regrouping, so  $12 - 8 = 4$ . Hundreds:  $1 - 1 = 0$ . Difference is 45.
- Choice A is correct.** **(3.MD.C.7c)** A vertical line in a rectangle splits its width or length. Here the length is 7 and the other dimension splits into  $3 + 2$ .
- Choice B is correct.** **(3.NF.A.2)** Count: Start at tick 1 ( $\frac{1}{4}$ ), move 2 ticks right ( $1+2=3$ ). Land at tick 3, which is  $\frac{3}{4}$ .
- Choice D is correct.** **(3.OA.A.2)**  $10 \div 5 = 2$ . The picture shows 5 equal groups, each with 2 items.
- Choice B is correct.** **(3.MD.C.6)** 7 columns  $\times$  4 rows = 28 unit squares.
- Choice B is correct.** **(3.MD.B.4)** At  $2\frac{1}{4}$  feet there are 2 X's. At  $2\frac{3}{4}$  feet there are also 2 X's.
- Choice B is correct.** **(3.NF.A.2a)** The number line has 8 equal parts, so the first tick is at  $\frac{1}{8}$ .

### Practice Test 2 Answers and Explanations



Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 5 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 5 times. That's real confidence. It is not pretend! ★

**Cheer Roll Call**

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

**Cheer tip:** on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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 Cheerleader

# Build Skills. Boost Confidence.

## Excel in Grade 3 Math!

This book provides 5 full-length Grade 3 math practice tests that follow standards and help students achieve real results.



### 5 Full-Length Practice Tests

Realistic tests to build stamina and familiarity.



### Standards-Aligned Practice

Questions match Grade 3 math standards and key skills.



### Answer Keys & Explanations

Detailed answers that show steps and clear reasoning.



### Review & Master Skills

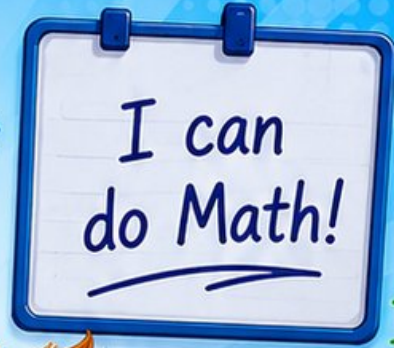
Strengthen concepts in numbers, operations, fractions, geometry, measurement, and more.

### COVERS ALL ESSENTIAL TOPICS

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- ✓ Operations & Algebraic Thinking
- ✓ Number Patterns
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- ✓ Geometry
- ✓ Perimeter, Area & Volume
- ✓ Time & Money
- ✓ Data & Graphs
- ✓ Word Problems
- ✓ And More!



Visit [testinar.com/math3](https://testinar.com/math3) for more Grade 3 math resources and practice materials!



$$\begin{array}{r} 7 \times 8 \\ \hline = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ -178 \\ \hline = 274 \end{array}$$



Everything Your Child Needs to Succeed in Grade 3 Math!



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