

9

Vermont VTCAP

GRADE 3 MATH PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,
WORD PROBLEMS, AND ANSWER KEY

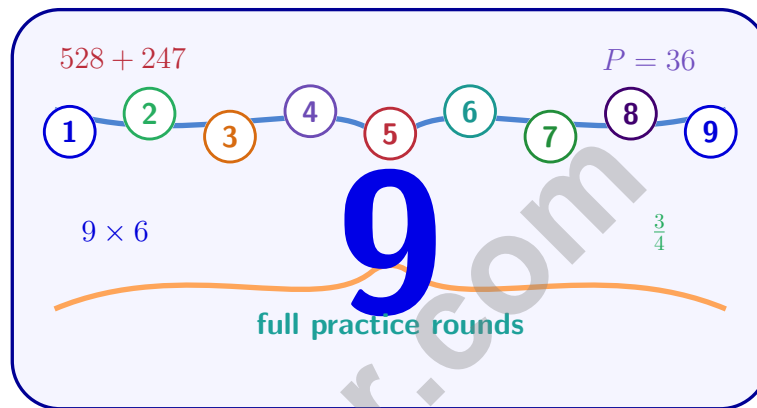


10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

9 Vermont VTCAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



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

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Vermont, Start Your Nine-Round Math Rally

A focused Grade 3 map from first try to confident finish

This book gives you nine chances to practice like a thoughtful Vermont VTCAP test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

Vermont has maple woods, covered bridges, ski hills, green valleys, and careful school routines, where careful steps matter. Strong math follows that same idea: measure what the question asks, choose a useful tool, show the work, and model before moving on.

Your Vermont Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

Nine rounds is not about rushing. It is about building a math habit that stays strong.

How to Use This Book

A nine-session routine for clear Vermont review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

Good rhythm: Test one day, review the next day, then take the next test when your corrections feel clear. In Vermont, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with VTCAP support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A Vermont standards reference and standard-code boxes in explanations

Why mixed practice helps: Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.

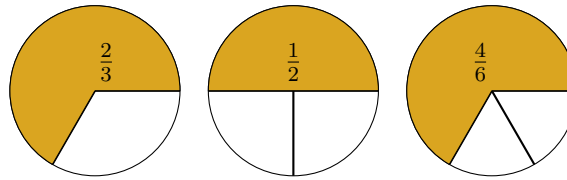


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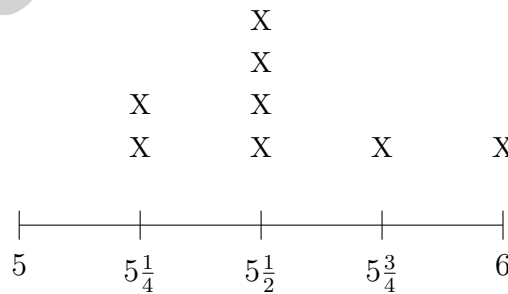
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1) Look at the pies. Which two fractions are equivalent?



- A. The first and second
 - B. The second and third
 - C. The first and third
 - D. All three
- 2) Ava cut a candy bar into thirds. She has $\frac{15}{3}$ pieces. How many whole candy bars did she start with?
- A. 3
 - B. 5
 - C. 15
 - D. 10
- 3) A square mural is made of unit tiles. It has 6 columns and 6 rows. What is the area of the mural?
- A. 12
 - B. 24
 - C. 36
 - D. 66
- 4) A line plot shows shell widths in centimeters: $5, 5\frac{1}{4}, 5\frac{1}{2}, 5\frac{3}{4}, 6$.



Which width has the most shells?

- A. $5\frac{1}{4}$ cm
- B. $5\frac{1}{2}$ cm
- C. $5\frac{3}{4}$ cm
- D. 6 cm

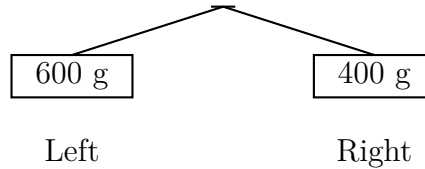


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5) A number line from 0 to 1 is divided into 6 equal parts. Which point is at $\frac{4}{6}$?

- A. The 2nd tick C. The 4th tick
 B. The 3rd tick D. The 6th tick

Balance Scales



6)

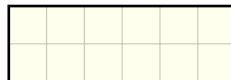
What is the difference in mass between the two sides?

- A. 100 g C. 400 g
 B. 200 g D. 600 g

7) Eli eats breakfast at 7 : 33 AM. He eats lunch 3 hours and 17 minutes later. What time does Eli eat lunch?

- A. 10 : 30 AM C. 11 : 00 AM
 B. 10 : 45 AM D. 10 : 50 AM

8) This grid shows a rectangle on unit squares.



What is the area in square units?

- A. 8 sq units C. 12 sq units
 B. 10 sq units D. 14 sq units



9) Sam says: " $\frac{4}{8} > \frac{4}{6}$ because 8 is bigger than 6." Is Sam right?

- A. Yes, Sam is right C. No, the fractions are equal
 B. No, Sam got the rule backwards D. Cannot tell from the fractions

10) A picture graph shows apples in bags. Look at the key and count the symbols.

Key: ● = 5 apples

Bag 1: ● ● ●

Bag 2: ● ● ● ●

- A. Bag 1 has 15 apples, Bag 2 has 20 apples. C. Bag 1 has 15 apples, Bag 2 has 10 apples.
 B. Bag 1 has 3 apples, Bag 2 has 4 apples. D. Bag 1 has 20 apples, Bag 2 has 15 apples.

11) Which repeated addition equals $9 + 9 + 9 + 9$?

- A. $3 \times 9 = 27$ C. $5 \times 9 = 45$
 B. $9 \times 9 = 81$ D. $4 \times 9 = 36$

12) Lily has a tile that is 6 centimeters by 6 centimeters. What is the area of Lily's tile?

- A. 12 square centimeters C. 30 square centimeters
 B. 24 square centimeters D. 36 square centimeters

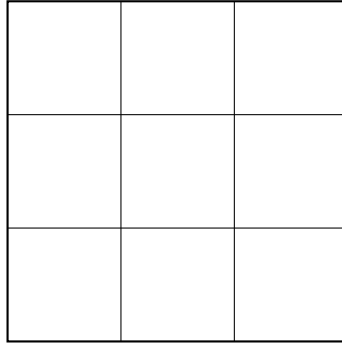
13) Maria has 56 cookies. She puts them equally into 7 boxes. How many cookies go in each box?

- A. 7 cookies C. 49 cookies
 B. 63 cookies D. 8 cookies



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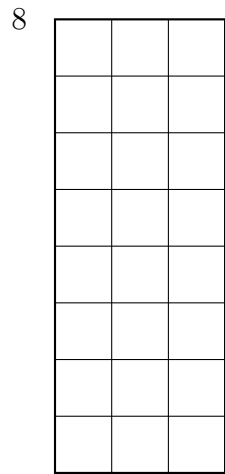
- 1) A square is divided into a 3×3 grid (2 horizontal and 2 vertical lines making 9 equal small squares). What fraction is one small square?



- A. $\frac{1}{6}$ C. $\frac{1}{9}$
 B. $\frac{1}{8}$ D. $\frac{1}{4}$
- 2) A rectangle is covered by unit squares in a 6×2 arrangement. What is the area?
- A. 8 square units C. 12 square units
 B. 10 square units D. 16 square units
- 3) A line plot shows plant stem lengths in centimeters: 12 , $12\frac{1}{4}$, $12\frac{1}{2}$, $12\frac{3}{4}$, 13 . The counts are: 3 at 12 cm, 1 at $12\frac{1}{4}$ cm, 0 at $12\frac{1}{2}$ cm, 2 at $12\frac{3}{4}$ cm, and 1 at 13 cm. What is the range?
- A. $\frac{1}{4}$ cm C. 1 cm
 B. $\frac{3}{4}$ cm D. 2 cm
- 4) Noah drew 6 boxes with 4 stars in each box. How many stars did Noah draw in total?
- A. 10 stars (adds $6 + 4$) C. 16 stars (multiplies by second number: 4×4)
 B. 15 stars D. 24 stars



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5)

3

How many unit squares fit in this tall rectangle?

A. 11

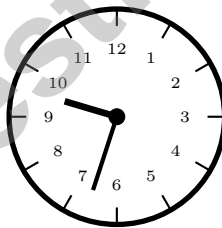
C. 24

B. 18

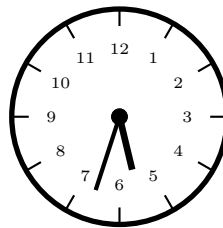
D. 83

6) Which clock shows 9 : 33?

Clock A



Clock B



A. Clock A

C. Neither

B. Clock B

D. Both



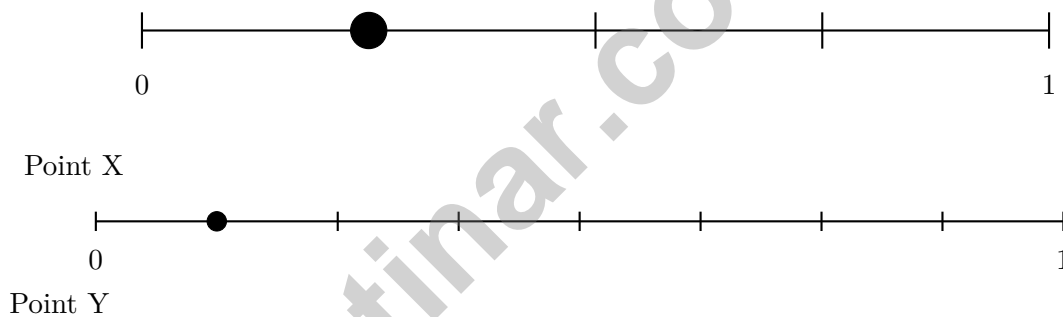
1) Sam is organizing stickers into an array. He makes 8 rows with 5 stickers in each row. How many stickers are in the array?

- A. 35 stickers C. 45 stickers
 B. 50 stickers D. 40 stickers

2) Amira has 15 beads. She wants to make 3 necklaces with equal beads. She knows $3 \times 5 = 15$ helps her. How many beads in each necklace?

- A. 3 beads C. 15 beads
 B. 18 beads D. 5 beads

3) A number line from 0 to 1 has two unlabeled points. Point X is at the first tick of a 4-part line. Point Y is at the first tick of an 8-part line. Which is farther from 0?



- A. Point X C. They are equidistant
 B. Point Y D. Cannot be determined

4) Lily has 20 stickers. She puts them in packs of 4 stickers each. How many packs can she make?

- A. 4 C. 16
 B. 6 D. 5

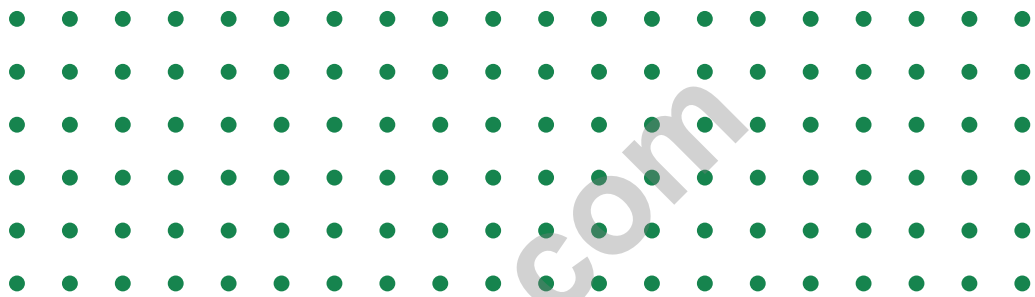


5) In a multiplication table, $2 \times 6 = 12$ and $6 \times 2 = 12$.

Why does this pattern always happen?

- A. Because 2 and 6 are different numbers
 B. Because the table is square-shaped
 C. Because 12 is an even number
 D. Because multiplication order does not change the product

6) There are 6 rows of flowers. Each row has 20 flowers. How many flowers are there in total?



$$6 \times 20 = ?$$

- A. 26
 B. 62
 C. 120
 D. 1200

7) Noah has 56 baseball cards. He puts them into 7 equal piles. How many cards are in each pile?

$$56 \div 7 = \square$$

- A. 10
 B. 9
 C. 7
 D. 8



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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 C is correct.** **(3.NF.A.3)** $\frac{2}{3}$ and $\frac{4}{6}$ show the same shaded amount.
- 2) **Choice B is correct.** **(3.NF.A.3c)** 15 thirds means $15 \div 3 = 5$ wholes. Each candy bar had 3 thirds.
- 3) **Choice C is correct.** **(3.MD.C.7a)** Square: $6 \times 6 = 36$ tiles. D is concatenation error.
- 4) **Choice B is correct.** **(3.MD.B.4)** At $5\frac{1}{2}$ there are 4 X's. At $5\frac{1}{4}$ there are 2, at $5\frac{3}{4}$ there is 1, and at 6 there is 1.
- 5) **Choice C is correct.** **(3.NF.A.2b)** $\frac{4}{6}$ means count 4 copies of unit $\frac{1}{6}$ starting at 0. The 4th tick mark is $\frac{4}{6}$.
- 6) **Choice B is correct.** **(3.MD.A.2)** Subtract: $600 - 400 = 200$ g.
- 7) **Choice D is correct.** **(3.MD.A.1)** $7 : 33 + 3$ hours = $10 : 33$. Then $10 : 33 + 17$ min = $10 : 50$ AM.
- 8) **Choice C is correct.** **(3.MD.C.6)** 6 units wide \times 2 units tall = 12 unit squares.
- 9) **Choice B is correct.** **(3.NF.A.3d)** With the same numerator, a LARGER denominator means SMALLER pieces. So $\frac{4}{8} < \frac{4}{6}$, not greater.
- 10) **Choice A is correct.** **(3.MD.B.3)** Count the symbols in the picture graph and multiply each count by the scale.
- 11) **Choice D is correct.** **(3.OA.A.1)** The addition $9 + 9 + 9 + 9$ has four 9's, so it equals $4 \times 9 = 36$.
- 12) **Choice D is correct.** **(3.MD.C.5)** This is a square: $6 \times 6 = 36$ square centimeters.
- 13) **Choice D is correct.** **(3.OA.C.7)** $56 \div 7 = 8$ cookies in each box. Verify: $8 \times 7 = 56$. Distractors: C is $56 - 7$; D is 7×9 .
- 14) **Choice D is correct.** **(3.OA.D.9)** $3 \times 1 = 3$, $3 \times 2 = 6$, $3 \times 3 = 9$, etc. The difference between consecutive products is always 3.
- 15) **The correct answer is 240.** **(3.NBT.A.3)** $3 \times 8 = 24$, then add one zero to get 240: $3 \times 80 = 240$.
- 16) **Choices A and C are correct.** **(3.OA.A.4)** Equations A and C belong to the same fact family because both use the numbers 5, 7, and 35. Choices B, D, and E use different numbers.
- 17) **Choice B is correct.** **(3.MD.C.7b)** Area = length \times width = $9 \times 3 = 27$ square yards.
- 18) **Choice A is correct.** **(3.NBT.A.1)** The ones digit is 4. Since $4 < 5$, round down: 254 rounds to 250.
- 19) **Choice B is correct.** **(3.NF.A.3b)** Pie 1 shows $\frac{1}{2}$ (half shaded) and Pie 3 shows $\frac{2}{4}$ (half shaded). Both represent the same amount: $\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$.
- 20) **The correct answer is 2.** **(3.NF.A.1)** $\frac{1}{2} + \frac{1}{2} = 1$, so 2 halves make one whole.
- 21) **Choice D is correct.** **(3.OA.B.6)** $24 \div 4 = \square$ means $\square \times 4 = 24$. Since $6 \times 4 = 24$, each shelf has 6 books.
- 22) **Choice C is correct.** **(3.NF.A.2a)** Two parts split in half each gives $2 \times 2 = 4$ parts.
- 23) **Choice C is correct.** **(3.G.A.1)** The red sides (top and bottom) appear parallel to each other, and the blue sides (left and right) appear parallel to each other. This is a parallelogram.
- 24) **Choice C is correct.** **(3.G.A.2)** One part out of four equal parts is $\frac{1}{4}$.
- 25) **Choice A is correct.** **(3.NF.A.3a)** $\frac{2}{6} = \frac{1}{3}$. When you simplify $\frac{2}{6}$, you get one-third.
- 26) **Choice C is correct.** **(3.OA.D.8)** Step 1: After eating: $18 - 7 = 11$ apples. Step 2: Add new: $11 + 4 = 15$ apples. (Choice A is step 1 only.)
- 27) **The correct answer is 36 square inches.** **(3.MD.C.7)** A square has equal sides. Area = $6 \times 6 = 36$ square inches. You can also add: $6 + 6 + 6 + 6 + 6 + 6 = 36$ (six rows of six).
- 28) **Choice C is correct.** **(3.MD.C.7d)** Vertical: $7 \times 6 = 42$ sq units. Horizontal: $8 \times 3 = 24$ sq units. Total: $42 + 24 = 66$ sq units.
- 29) **Choice D is correct.** **(3.OA.A.2)** $12 \div 3$ asks "how many in each group when 12 items are shared equally among 3 groups?" Each group gets 4 items.
- 30) **Choice A is correct.** **(3.NF.A.2)** The first tick out of 3 equal parts is $\frac{1}{3}$ of the way from 0 to 1.

Practice Test 2 Answers and Explanations



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Ahoy, Math Sailor!

◇ You sailed through 9 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

Captain's tip: on test day, sail steady. Trust the map you built through 9 practice tests. You will reach safe harbor!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Captain

STRONG TODAY. SUCCESS TOMORROW.

Give your child the tools they need to excel in **Grade 3 Math!** This book includes **9 complete practice tests** that follow grade-level standards and help students build confidence, sharpen skills, and achieve success.

9
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Identify strengths and target areas with purposeful practice.



Achieve Success

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
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- ✓ Word Problems
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- ✓ Perimeter, Area & Volume
- ✓ And More!



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Aligned to Standards



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