

8

Virginia SOL

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



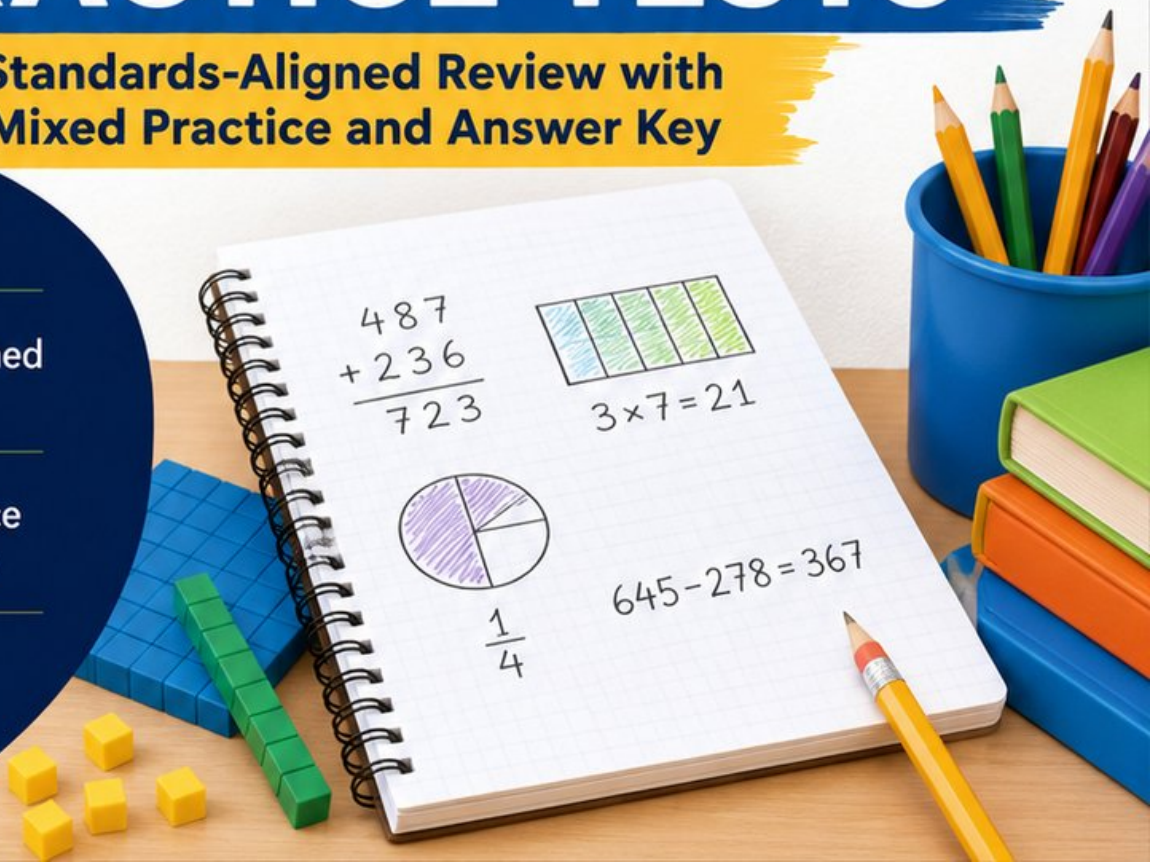
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 Virginia SOL 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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Virginia, 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 Virginia SOL. 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.

Virginia has Blue Ridge views, coastal harbors, historic roads, school labs, and thoughtful questions, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and use evidence to support each answer.

Your Virginia 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 Virginia 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 Virginia, 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 SOL

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

Virginia focus: The practice path starts with Blue Ridge views, coastal harbors, historic roads, school labs, and thoughtful questions. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



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& answers

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1) A grid shows 6 rows and 5 columns of squares. How many squares are there?

A. 11

C. 25

B. 35

D. 30

2) Ben starts his chores at 3 : 14 PM. He finishes at 3 : 56 PM. How long does Ben do chores?

A. 38 minutes

C. 42 minutes

B. 40 minutes

D. 45 minutes

3 meters



6 meters

3)

A rectangular pool is 6 meters long and 3 meters wide. Find its area.

A. 9 sq m

C. 15 sq m

B. 36 sq m

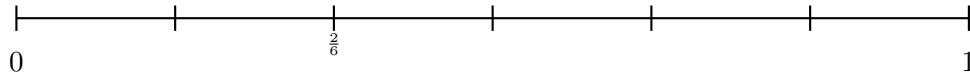
D. 18 sq m

4) A line plot shows book lengths in inches: $7, 7\frac{1}{4}, 7\frac{1}{2}, 7\frac{3}{4}, 8$. Measurements: 2 at 7 inches, 1 at $7\frac{1}{4}$ inches, 4 at $7\frac{1}{2}$ inches, 2 at $7\frac{3}{4}$ inches, and 1 at 8 inches. What is the range of book lengths?



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9) On a number line from 0 to 1 split into 6 equal parts, does the line show $\frac{1}{3}$?



- A. Yes, it shows $\frac{1}{3}$ at the first tick D. No, because $\frac{1}{3}$ is always between 0 and 1
 B. Yes, it shows $\frac{1}{3}$ at the second tick C. No, because sixths and thirds are different
 C. No, because sixths and thirds are different
- 10) Eli has two shapes. Shape 1 is a 2×10 rectangle. Shape 2 is a 4×5 rectangle. Do the shapes have the same area?
- A. Yes, both are 20 square units C. No, Shape 2 has 9 square units
 B. No, Shape 1 has 12 square units D. Cannot determine
- 11) Complete the fact family:

$$5 \times 7 = 35 \quad 7 \times 5 = 35 \quad 35 \div 5 = \square \quad 35 \div 7 = \square$$

- A. 7 and 5 C. 35 and 35
 B. 5 and 7 D. 10 and 10
- 12) Mia marks $\frac{1}{4}$ on a number line from 0 to 1 that has 4 equal parts. Then she marks $\frac{3}{4}$. How many tick marks apart are these two points?
- A. 0 marks C. 4 marks
 B. 1 mark D. 2 marks



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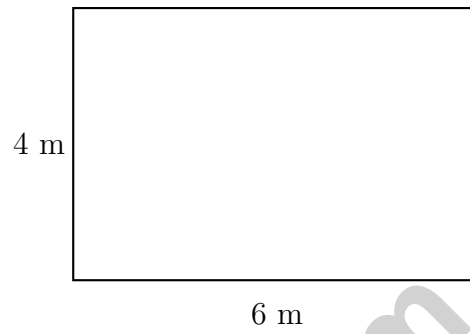
5) Which multiplication fact can help you find $64 \div 8$?

A. $8 \times 7 = 56$

C. $8 \times 9 = 72$

B. $8 \times 6 = 48$

D. $8 \times 8 = 64$



6)

A rectangular parking spot measures 6 meters by 4 meters. What is its area?

A. 10 sq m

C. 12 sq m

B. 20 sq m

D. 24 sq m

7) There are 18 apples in a basket. 7 apples are eaten. Then 4 new apples are added. How many apples are in the basket now?

A. 11

C. 15

B. 14

D. 18

8) A picture graph shows donated items. Each box represents 10 items. There are 8 boxes. How many items were donated?

A. 18

C. 80

B. 70

D. 90



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1) A square rug has side length 5 meters. What is its area?

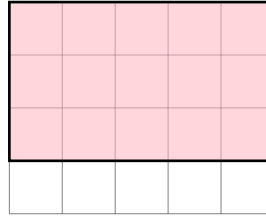
A. 10 sq m

C. 25 sq m

B. 20 sq m

D. 30 sq m

2) Count the square units in the shaded grid.



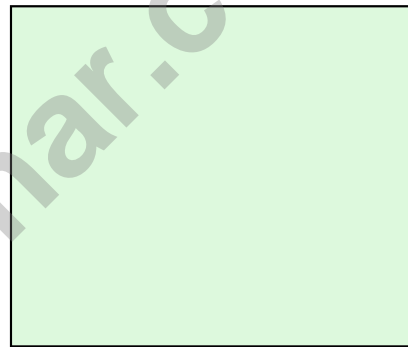
A. 15 square units

C. 20 square units

B. 10 square units

D. 12 square units

5 yards



6 yards

3)

A rectangular lawn is 6 yards long and 5 yards wide. What is its area?

A. 22 sq yd

C. 11 sq yd

B. 60 sq yd

D. 30 sq yd



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4) Look at the pattern for multiples of 7:

7, 14, 21, 28, 35, 42, 49, ...

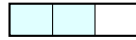
Without counting, which number should come next?

A. 54

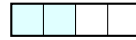
C. 56

B. 55

D. 57



$\frac{2}{3}$



$\frac{2}{4}$

5)

Compare $\frac{2}{3}$ and $\frac{2}{4}$. Which is true?

A. $\frac{2}{3} < \frac{2}{4}$ (bigger denominator = bigger fraction)

C. $\frac{2}{3} > \frac{2}{4}$

D. $\frac{2}{4} > \frac{2}{3}$ ($4 > 3$, so $\frac{2}{4}$ is larger)

B. $\frac{2}{3} = \frac{2}{4}$ (both have numerator 2)

6) Noah measures the mass of three books. The first weighs 300 g, the second weighs 400 g, and the third weighs 350 g. If he carries all three books, what is the total mass in grams?

7) A farmer plants corn in an array with 4 rows and 8 plants in each row. How many plants does the farmer plant?

A. 32

C. 20

B. 24

D. 12



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 D is correct.** **(3.CE.2)** Multiply: 6 rows \times 5 columns = 30 squares.
- 2) **Choice C is correct.** **(3.MG.3)** From 3 : 14 to 3 : 56: $56 - 14 = 42$ minutes.
- 3) **Choice D is correct.** **(3.NS.1)** Area = length \times width = $6 \times 3 = 18$ square meters.
- 4) **The correct answer is 1 inch.** **(3.MG.1)** Range = max - min = $8 - 7 = 1$ inch.
- 5) **Choice B is correct.** **(3.MG.2)** Area = $7 \times 2 = 14$ square inches.
- 6) **Choice A is correct.** **(3.PFA.1)** $195 + 210$: ones $5 + 0 = 5$. Tens $9 + 1 = 10$, so regroup 10 tens as 1 hundred. Then hundreds $1 + 2 + 1 = 4$, giving 405.
- 7) **Choice A is correct.** **(3.PS.1)** Two halves equals 1. Two fourths is less than 1. So $\frac{2}{4} < \frac{2}{2}$.
- 8) **Choice B is correct.** **(3.NS.1)** The chart shows 6 tens and 0 ones, which is $6 \times 10 = 60$.
- 9) **Choice B is correct.** **(3.NS.1)** $\frac{2}{6}$ equals $\frac{1}{3}$ because both represent the same point on the line. You can simplify $\frac{2}{6}$ to $\frac{1}{3}$.
- 10) **Choice A is correct.** **(3.MG.2)** Shape 1: $2 \times 10 = 20$ square units. Shape 2: $4 \times 5 = 20$ square units. They have equal areas.
- 11) **Choice A is correct.** **(3.CE.2)** In a fact family, if $5 \times 7 = 35$, then $35 \div 5 = 7$ (because $7 \times 5 = 35$) and $35 \div 7 = 5$ (because $5 \times 7 = 35$). In division, we find the missing factor from the multiplication fact. Options C and D incorrectly repeat the same number.
- 12) **Choice D is correct.** **(3.NS.1)** $\frac{1}{4}$ is the 1st tick; $\frac{3}{4}$ is the 3rd tick. The distance is $3 - 1 = 2$ ticks apart.
- 13) **The correct answer is 68.** **(3.PS.1)** $7 \times 9 = 63$, and $63 + 5 = 68$.
- 14) **Choice B is correct.** **(3.MG.1)** 3 kg = 3000 g. Subtract: $3000 - 1500 = 1500$ g.
- 15) **The correct answer is 35.** **(3.CE.2)** Multiply: $7 \times 5 = 35$. Check: $35 \div 5 = 7$.
- 16) **Choices B and E are correct.** **(3.PS.1)** This problem shows the associative property. When you group factors differently, like $(4 \times 6) \times 2$ or $4 \times (6 \times 2)$, you still get the same product. Option B states the name correctly, and E restates what associative means. A is commutative (switching order), C is distributive (breaking apart a sum), and D relates to multiplying by 1.
- 17) **Choice D is correct.** **(3.NS.1)** $6 \times 7 = (6 \times 10) - (6 \times 3) = 60 - 18 = 42$. Breaking the fact into known facts is a good mental-math strategy.
- 18) **Choice D is correct.** **(3.NS.1)** The tens digit is 7. Since $7 \geq 5$, round up: 475 rounds to 500.
- 19) **Choice D is correct.** **(3.PFA.1)** Odd numbers go up by 2 each time. Add 2 to 9 to get 11.
- 20) **Choice C is correct.** **(3.NS.2)** A circle divided into 8 equal slices has each slice as a unit fraction of $\frac{1}{8}$ (one-eighth).
- 21) **Choice A is correct.** **(3.NS.1)** The width is 4 for both parts. The heights are 7 and 5, split by a horizontal line.
- 22) **Choice C is correct.** **(3.MG.1)** A 5 cm \times 4 cm rectangle is covered by $5 \times 4 = 20$ unit squares of 1 cm each.
- 23) **Choice B is correct.** **(3.MG.2)** Top: $4 \times 2 = 8$ sq m. Bottom left: $2 \times 3 = 6$ sq m. Bottom right: $2 \times 3 = 6$ sq m. Total: $8 + 6 + 6 = 20$ sq m.
- 24) **Choice A is correct.** **(3.NS.1)** $\frac{6}{2}$ means 6 halves. 2 halves make 1 whole, so $6 \div 2 = 3$ wholes. The bar is divided into 3 sections (thick lines).
- 25) **Choice A is correct.** **(3.NS.3)** Both bars show the same shaded length. $\frac{3}{6} = \frac{1}{2}$ because $\frac{1 \times 3}{2 \times 3} = \frac{3}{6}$.
- 26) **Choice B is correct.** **(3.PS.1)** Ty: $6 \times 5 = 30$. Kim: $8 \times 5 = 40$. Fewer: $40 - 30 = 10$.
- 27) **Choice B is correct.** **(3.MG.2)** Count the rows: 9 rows. Count across: 6 unit squares per row. Total: $6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 = 54$ unit squares cover the playground.
- 28) **Choice B is correct.** **(3.CE.1)** In a rectangle, opposite sides are equal. The opposite long side is also the length, which is 6 cm.
- 29) **Choice B is correct.** **(3.NS.1)** Two columns out of three equal columns is $\frac{2}{3}$.
- 30) **Choice B is correct.** **(3.NS.1)** The unit fraction is $\frac{1}{3}$. The second tick is at two unit fractions: $2 \times \frac{1}{3} = \frac{2}{3}$.



From Your Math Family

Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 8 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

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

Jay Daie

Your Math Family

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



EACH PRACTICE TEST INCLUDES:



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Aligned
Questions



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Question
Types



Real-World
Math
Applications



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Progress
Tracking



Build Skills
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Confidence

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