

6

Virginia SOL

GRADE 3

MATH

PRACTICE TESTS

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



6 Full-Length
Practice Tests



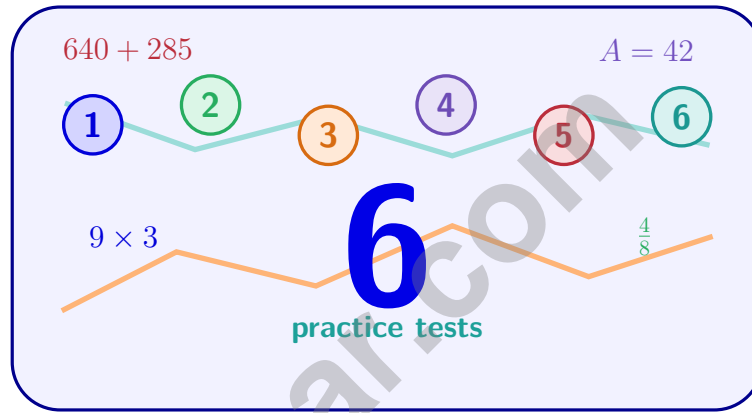
Detailed Answer Keys
and Explanations



Master Skills.
Boost Scores.
Succeed!

6 Virginia SOL Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



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

Jay Daie and Reza Nazari



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Welcome to the Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

To the Grade 3 Math Builder

This book gives you six practice labs for the Virginia SOL. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Virginia brings Blue Ridge views, coastal harbors, historic roads, and school labs. Strong math uses that same care: read the task, select a strategy, build the solution, and use evidence to support each answer.

Decode

Find the question, the units, and the useful numbers.

Design

Use an equation, array, number line, graph, or sketch.

Confirm

Make sure the answer matches the question.

Six-lab promise: I will work with patience, show useful thinking, and treat corrections as part of learning.

How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For Virginia students, each lab is a short route through Blue Ridge views, coastal harbors, historic roads, and school labs: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

Best review habit: A mistake is most useful when you can say why it happened and what you will do differently next time.



What Is Inside?

Six complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–6	Solve six different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Virginia 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. This gives students practice with quick decisions, careful reading, and short written math answers for the Virginia SOL path.



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& answers

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1) Look at this schedule table.

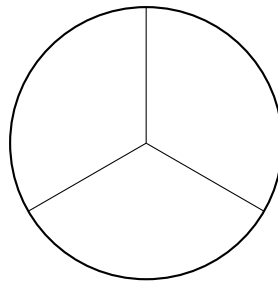
Event	Time
Math class starts	9 : 10 AM
Math class ends	10 : 03 AM
Lunch starts	12 : 00 PM

How long is math class?

- A. 50 minutes C. 55 minutes
 B. 53 minutes D. 1 hour

2) Maya buys 7 packs of stickers. Each pack has 30 stickers. How many stickers does Maya buy?

3) A circle is divided into equal parts. Each part is $\frac{1}{3}$ of the circle. How many equal parts is the circle divided into?



- A. 2 parts C. 4 parts
 B. 3 parts D. 6 parts



4) Two identical rectangles are divided into equal parts. Rectangle 1 has 2 parts shaded out of 3 total. Rectangle 2 has 4 parts shaded out of 6 total. Is the shaded amount the same?

- A. It depends on the rectangle size. C. Yes, both show the same amount.
 B. No, Rectangle 2 shows more. D. No, Rectangle 1 shows more.

5) What number makes the equation true?

$$20 \div 4 = \square$$

- A. 4 C. 6
 B. 7 D. 5

6) A picture graph shows stickers collected. Each star represents 2 stickers. If Sam has 3 stars, how many stickers does Sam have?



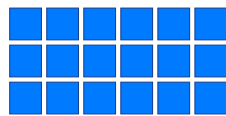
- A. 2 C. 6
 B. 5 D. 8



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7) Ava has two arrays that show the commutative property. Which is the matching pair?

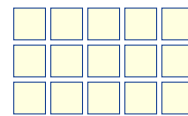
Ava's array:
3 rows, 6 columns



A
6 rows, 3 col



B
3 rows, 5 col



Addition Problem

8)

	Hundreds	Tens	Ones
	3	6	7
	+	+	+
	2	1	5

Using the place-value chart, what is $367 + 215$?

A. 572

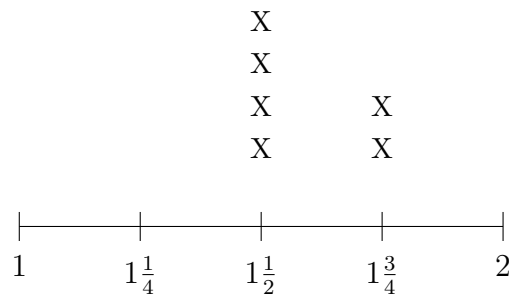
C. 692

B. 681

D. 582



1) Mia's line plot shows snack weights in ounces: $1, 1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{4}, 2$.



What is the difference between the largest and smallest numbers of X's?

- A. 1
 B. 2

- C. 3
 D. 4

2) Which shape would require 4 unit squares and has equal side lengths?

- A. A 2×2 square
 B. A 4×1 rectangle

- C. A 1×4 rectangle
 D. A 3×2 rectangle

3) $245 + 318 = ?$

- A. 563
 B. 572

- C. 573
 D. 562

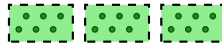


4) Which picture shows 18 items divided equally into 6 groups?

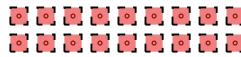
- A. Six groups of two



- B. Three groups of six



- C. Eighteen groups of one



- D. Six groups of three



5) Which of these does NOT show the associative property?

- A. $(2 \times 3) \times 4 = 2 \times (3 \times 4)$ C. $5 \times 2 = 2 \times 5$
 B. $(5 \times 2) \times 3 = 5 \times (2 \times 3)$ D. $(3 \times 3) \times 2 = 3 \times (3 \times 2)$

6) A small garden is shaped like a rectangle. Its dimensions are 5 meters by 4 meters. What is the total area?

- A. 9 sq m C. 18 sq m
 B. 20 sq m D. 25 sq m

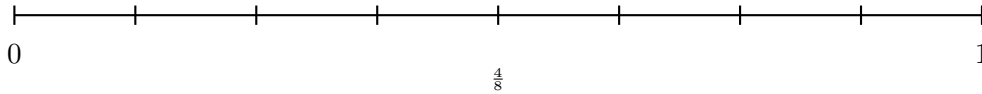
7) Lily starts a project at 7 : 29 AM. She works for 1 hour and 16 minutes. What time does she finish?

- A. 8 : 35 AM C. 8 : 45 AM
 B. 8 : 40 AM D. 9 : 00 AM



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- 5) On a number line from 0 to 1 divided into 8 equal parts, which two fractions name the same point?



- A. $\frac{1}{2}$ and $\frac{4}{8}$
 C. $\frac{3}{8}$ and $\frac{5}{8}$
 B. $\frac{2}{8}$ and $\frac{3}{8}$
 D. $\frac{2}{4}$ and $\frac{6}{8}$
- 6) What fraction marks the second tick on a number line split into 6 equal parts?

- 7) Sam counted 254 stickers. To estimate, he rounds to the nearest 10. What is the rounded number?
- A. 250
 C. 260
 B. 254
 D. 300
- 8) Lily and Mia are comparing rectangles. Lily's rectangle is 6 units long and 5 units wide. Mia's rectangle is 7 units long and 4 units wide. Who has the larger area?
- A. Mia
 C. They are equal
 B. Lily
 D. Cannot be determined
- 9) Aiden buys 6 packs of trading cards with 4 cards in each pack. He loses 8 cards. How many cards does he have now?
- A. 16
 C. 24
 B. 22
 D. 32



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.MG.3)** From 9 : 10 to 10 : 10 is 1 hour (60 minutes). From 10 : 03 to 10 : 10 is 7 minutes. So $60 - 7 = 53$ minutes.
- 2) **The correct answer is 210.** **(3.NS.1)** 7 packs of 30 stickers = $7 \times 30 = 210$ stickers. Multiply $7 \times 3 = 21$, then add one zero.
- 3) **Choice B is correct.** **(3.NS.1)** If each part is $\frac{1}{3}$, the circle is divided into 3 equal parts.
- 4) **Choice C is correct.** **(3.NS.1)** $\frac{2}{3} = \frac{4}{6}$ because both represent two-thirds of the rectangle.
- 5) **Choice D is correct.** **(3.CE.2)** Think: $5 \times 4 = 20$, so $20 \div 4 = 5$.
- 6) **Choice C is correct.** **(3.PS.1)** Count the stars and multiply by the scale: $3 \times 2 = 6$ stickers.
- 7) **Choice A is correct.** **(3.PS.1)** Option A shows 6 rows and 3 columns. By the commutative property, $3 \times 6 = 6 \times 3 = 18$. Flipping rows and columns shows the same product in a different order.
- 8) **Choice D is correct.** **(3.PFA.1)** Ones: $7 + 5 = 12$ (write 2, carry 1). Tens: $6 + 1 + 1 = 8$. Hundreds: $3 + 2 = 5$. Answer: 582.
- 9) **Choice D is correct.** **(3.CE.2)** Multiply: 5 packs \times 6 stickers per pack = 30 stickers.
- 10) **Choice D is correct.** **(3.NS.1)** One whole can be written as $\frac{1}{1}$, where numerator = denominator.
- 11) **Choice C is correct.** **(3.NS.1)** Area = length \times width = $5 \times 4 = 20$ square feet.
- 12) **Choice A is correct.** **(3.NS.1)** $4 \times 7 = 28$. Count by 7s four times: 7, 14, 21, 28.
- 13) **Choice D is correct.** **(3.PFA.1)** The pattern is 2, 4, 6, 8, 10, 12. Add 2 each time.
- 14) **Choice B is correct.** **(3.PS.1)** Four fourths is one whole. Four sixths is less than one whole. So $\frac{4}{4} > \frac{4}{6}$.
- 15) **Choice C is correct.** **(3.MG.1)** 4 units wide \times 6 units tall = 24 unit squares.
- 16) **Choice B is correct.** **(3.NS.2)** Two unit fractions of $\frac{1}{6}$ are being added: $\frac{1}{6} + \frac{1}{6} = \frac{2}{6}$. So there are 2 unit fractions.
- 17) **Choices A and B are correct.** **(3.CE.2)** The fact family for 5, 6, and 30 includes multiplication facts and related division facts. Options A ($5 \times 6 = 30$) and B ($30 \div 5 = 6$) are correct. C, D, and E are addition or subtraction statements, so they are not part of this multiplication/division fact family.
- 18) **Choice D is correct.** **(3.NS.1)** 5 shelves with 8 boxes each means 5 groups of 8. So $5 \times 8 = 40$ boxes.
- 19) **Choice C is correct.** **(3.NS.3)** $\frac{3}{4}$ and $\frac{6}{8}$ both equal three-fourths of a whole.
- 20) **Choice B is correct.** **(3.PS.1)** Step 1: Divide: $36 \div 4 = 9$ cupcakes per box. Step 2: Find unsold: $4 - 2 = 2$ boxes left, which is $2 \times 9 = 18$ cupcakes. (Choice A is step 1 only.)
- 21) **Choice C is correct.** **(3.NS.1)** The dot is at the 3rd mark out of 8 equal divisions, so the fraction is $\frac{3}{8}$.
- 22) **Choice B is correct.** **(3.MG.2)** Rectangle A: $6 \times 3 = 18$ sq units. Rectangle B: $5 \times 4 = 20$ sq units. $20 > 18$, so B is larger.
- 23) **Choice D is correct.** **(3.NS.1)** The ones digit is 2. Since $2 < 5$, round down: 92 rounds to 90.
- 24) **Choice B is correct.** **(3.MG.2)** Area must be measured in square units because it describes 2D space. Square feet, square inches, square meters, and square centimeters are all correct area units.
- 25) **Choice A is correct.** **(3.NS.1)** The picture shows 18 items shared into 3 equal groups of 6 each. So $18 \div 3 = 6$.
- 26) **Choice C is correct.** **(3.CE.1)** A trapezoid is defined as a quadrilateral with exactly one pair of parallel sides.
- 27) **Choice A is correct.** **(3.NS.1)** Five equal parts means each part is $\frac{1}{5}$.
- 28) **Choice B is correct.** **(3.NS.1)** $\frac{8}{8} = 1$ and $\frac{16}{8} = 2$. Since $2 > 1$, $\frac{16}{8}$ is larger.
- 29) **The correct answer is 2 scores.** **(3.MG.1)** The scores 81 and 82 points each occur once, so there are 2 scores occurring exactly once.
- 30) **Choice B is correct.** **(3.MG.2)** Count the rows: 3 rows. Count across: 4 unit squares per row. Total: $3 \times 4 = 12$ unit squares cover the rectangle, so area is 12 square units.

Practice Test 2 Answers and Explanations



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Hi, Hero!

◇ Once there was a Grade 3 student who took 6 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

Storyteller tip: on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

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

Jay Daie

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