

9

Virginia SOL

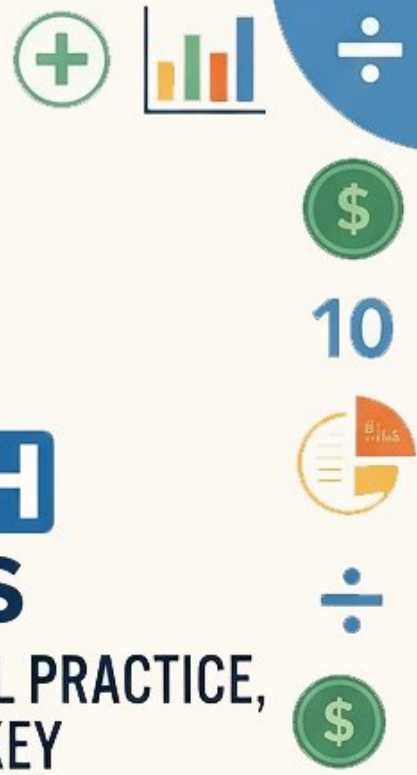
GRADE 3 MATH PRACTICE TESTS

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



10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM



9 Virginia SOL 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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Virginia, Start Your Nine-Round Math Climb

A ready Grade 3 climb from first try to confident finish

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

Virginia has Blue Ridge views, coastal harbors, historic roads, school labs, and thoughtful questions, where careful steps matter. Strong math follows that same idea: prove what the question asks, choose a useful tool, show the work, and notice before moving on.

Your Virginia 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 Virginia 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 Virginia, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with SOL 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 Virginia 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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For more practice
& answers

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1) A baker needs to multiply 400 g of sugar by 2 to make a bigger batch. How many grams of sugar does he need?

A. 400 g

C. 800 g

B. 600 g

D. 1000 g

2) Mia groups coins into 9 piles of 10 coins each. Use the place-value chart to show the total.

Tens	Ones
9	0

What is the total number of coins?

A. 19

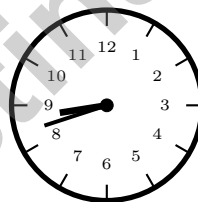
C. 910

B. 109

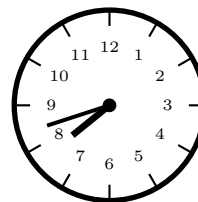
D. 90

3) Which clock shows 8 : 42?

Option A



Option B



A. Option A

C. Neither

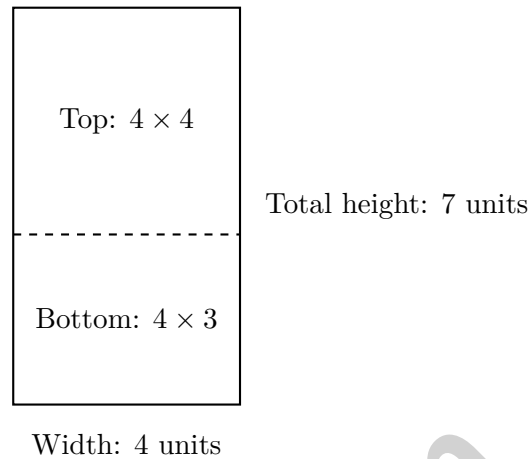
B. Option B

D. Both



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6) A rectangle is split horizontally:



What is the correct distributive statement?

- A. $4 \times (4 + 3) = (4 \times 4) + (4 \times 3) = 16 + 12 = 28$
- B. $4 + 3 = 7$ units
- C. $4 \times 7 = 28$
- D. $(4 + 4) + (4 + 3) = 15$

7) Eli has $\frac{8}{2}$ sheets of stickers. Each sheet is one whole. How many whole sheets does he have?

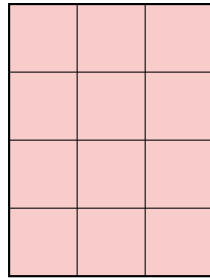
- A. 2
- B. 4
- C. 8
- D. 6



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1) Lily used $\frac{1}{2}$ of her crayons. Sam used $\frac{3}{6}$ of his crayons. Used the same fraction?

- A. Yes, they used the same fraction C. No, Sam used more
 B. No, Lily used more D. Cannot determine



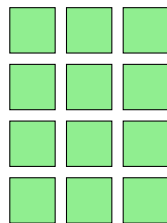
2)

Count all the unit squares in the grid shown. How many are there?

- A. 10 unit squares C. 12 unit squares
 B. 11 unit squares D. 13 unit squares

3) Kai has 20 toy cars. He puts 5 toy cars in each group. Which division shows the number of groups?

- A. $20 \div 5 = 4$ C. $20 + 5 = 25$
 B. $20 \div 4 = 4$ D. $20 - 5 = 15$



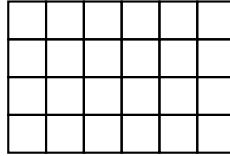
4)

What is the product shown by this array?

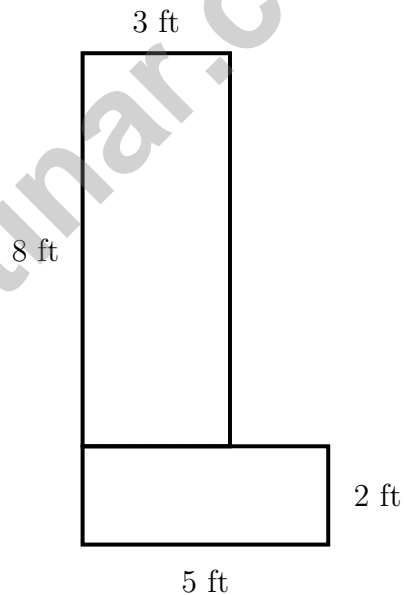
- A. 15 C. 9
 B. 7 D. 12



- 5) Count the unit squares in this rectangle. Write how many unit squares cover the shape.



- 6) An L-shaped garden is divided into two rectangles by a dashed line. The vertical part is 3 ft by 8 ft. The horizontal part is 5 ft by 2 ft. What is the total area?

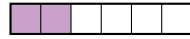


- A. 10 sq ft C. 34 sq ft
 B. 24 sq ft D. 240 sq ft

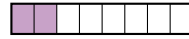


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5) A square has perimeter 40 feet. What is the length of one side?



$\frac{2}{6}$



$\frac{2}{8}$

6)

Which is true?

A. $\frac{2}{6} < \frac{2}{8}$

C. $\frac{2}{6} = \frac{2}{8}$

B. $\frac{2}{6} > \frac{2}{8}$

D. $\frac{2}{8} > \frac{2}{6}$

7) Eli cut a sandwich into 2 equal pieces and ate 1 piece. Noah cut his sandwich into 4 equal pieces and ate 2 pieces. Did they eat the same amount?

A. Yes, they ate the same amount

C. No, Noah ate more

B. No, Eli ate more

D. Cannot be determined

8) Ava eats 2 of 4 pizza slices. What fraction did she eat in simplest form?

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.MG.1)** Multiply: $400 \times 2 = 800$ g.
- Choice D is correct.** **(3.NS.1)** The chart shows 9 tens and 0 ones, which represents $9 \times 10 = 90$ coins.
- Choice A is correct.** **(3.MG.3)** At 8 : 42, the minute hand is between 8 and 9, and the hour hand is between 8 and 9 closer to 9. Option A shows this correctly.
- Choice D is correct.** **(3.CE.2)** In a fact-family triangle, the top is the product. If one factor is 4 and the product is 36, then $36 \div 4 = 9$, so the other factor is 9.
- Choice C is correct.** **(3.MG.2)** Add all three: $8 + 5 + 5 = 18$ square meters.
- Choice A is correct.** **(3.NS.1)** Width is 4. Heights are 4 and 3, totaling 7. Distributive: $4 \times (4 + 3) = 28$.
- Choice B is correct.** **(3.NS.1)** $\frac{8}{2}$ means 8 halves. 2 halves make 1 whole, so $8 \div 2 = 4$ wholes.
- Choice C is correct.** **(3.NS.1)** Rectangle X: $\frac{2}{4}$ shaded is half. Rectangle Y: $\frac{4}{8}$ shaded is also half. Even though one has 4 parts and the other has 8 parts, the same amount of area is shaded in both rectangles.
- Choice B is correct.** **(3.NS.1)** $\frac{3}{6} = \frac{1}{2}$ because both represent one-half.
- Choice A is correct.** **(3.NS.1)** From 0 to $\frac{1}{4}$ is exactly one of the four equal parts, so it is $\frac{1}{4}$ of the whole line.
- Choice A is correct.** **(3.CE.2)** From $6 \times 9 = 54$, one related division equation is $54 \div 6 = 9$ (the answer is the factor 9). Option B reverses correctly but is also valid; A is the expected answer. Options C and D use wrong operations.
- The correct answer is 4.** **(3.NS.3)** The numerator doubles from 2 to 4.
- Choice B is correct.** **(3.NS.1)** $\frac{5}{6}$ means $5 \times \frac{1}{6}$, so there are 5 equal steps from 0. Distractor A: distance to 1 is $\frac{1}{6}$, which is 1 part, not 1 tick per se (ambiguous). Distractor C: false; $\frac{5}{6}$ is much closer to 1. Distractor D: false; it is at the 5th tick.
- Choices A and C are correct.** **(3.NS.2)** A unit fraction has a numerator of exactly 1. Picture A is divided into 2 equal parts with 1 shaded = $\frac{1}{2}$ (unit fraction). Picture C is divided into 3 equal parts with 1 shaded = $\frac{1}{3}$ (unit fraction). Picture B shows $\frac{2}{5}$ (numerator is 2), and Picture D shows $\frac{3}{5}$ (numerator is 3), so neither B nor D is a unit fraction.
- Choice C is correct.** **(3.NS.1)** The denominator tells us how many parts: 6 parts of size $\frac{1}{6}$ each.
- The correct answer is 36 sq cm.** **(3.MG.1)** Since it's a square, both rows and columns equal 6. Students should show repeated addition.
- Choice A is correct.** **(3.PFA.1)** 1, 3, and 5 are odd numbers (shown in blue). 2 and 4 are even (shown in red).
- Choice A is correct.** **(3.NS.3)** Each friend gets $\frac{1}{3}$, which is equivalent to $\frac{2}{6}$.
- Choice C is correct.** **(3.MG.1)** Count the X's directly above the 11-inch mark. There are three X's stacked there.
- Choice D is correct.** **(3.NS.1)** The number line shows jumps of 2 from 0 to 10. There are 5 jumps, so it represents $10 \div 2 = 5$.
- Choice A is correct.** **(3.CE.2)** Divide: $40 \div 5 = 8$ cups.
- Choice B is correct.** **(3.PS.1)** Zoe: $6 \times 4 = 24$. Jake: $4 \times 4 = 16$. Fewer: $24 - 16 = 8$.
- Choice D is correct.** **(3.NS.1)** Three bags with 6 marbles each means 3 groups of 6. So $3 \times 6 = 6 + 6 + 6 = 18$.
- The correct answer is 15 centimeters.** **(3.MG.2)** $44 = 2\ell + 2(7) = 2\ell + 14$, so $2\ell = 30$ and $\ell = 15$ cm.
- Choice D is correct.** **(3.PS.1)** Step 1: Pencils: $3 \times 7 = 21$ items. Step 2: Pens: $4 \times 2 = 8$ items. Total: $21 + 8 = 29$ items.
- Choice B is correct.** **(3.MG.1)** Rectangle A is $5 \times 1 = 5$ unit squares. Rectangle B is $3 \times 2 = 6$ unit squares.
- Choice A is correct.** **(3.MG.2)** Area = $8 \times 1 = 8$ square yards.
- Choice D is correct.** **(3.NS.1)** The ones digit is 3. Since $3 < 5$, round down: 513 rounds to 510.
- Choice C is correct.** **(3.MG.2)** Count the left tall part: 3 columns and 4 rows = $4 + 4 + 4 = 12$ unit squares. Count the right bottom part: 2 columns and 2 rows = $2 + 2 = 4$ unit squares. Total: $12 + 4 = 16$ unit squares in this L-shaped figure.
- Choice B is correct.** **(3.PS.1)** Same numerator: thirds have bigger pieces than sixths. One third is greater than one sixth.



Hi, Strong Climber!

◇ You climbed all 9 tests. One step at a time. That takes patience and grit. The view from the top is amazing because you earned it! ◇

★ **Mountain guides say:** steady steps win the climb. You climbed steady. You stayed strong. ★

Climber's Skills

- **Strong Steps:** You move forward, problem by problem.
- **Steady Pace:** You don't rush. You don't stop.
- **Map Skills:** You read questions carefully.
- **Top of the Mountain:** You can finish a long test.

Guide's tip: on test day, take small breaths between problems. One foot, then the next. You'll reach the top!

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

Jay Daie

Your Math Trail Guide

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
COMPLETE PRACTICE TESTS

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- ✓ Engaging, Varied, and Effective

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- ✓ Graphing & Data Analysis
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- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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Aligned to Standards



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