

+
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10

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Virginia
SOL



GRADE 3

MATH

PRACTICE TESTS

- ✓ Complete Standards Review
- ✓ Skill Practice
- ✓ Word Problems and Answer Key

2 × 7 + 4



★
**PREPARE
PRACTICE
SUCCEED!**
★ ★ ★

Aligned to
Grade 3 Math
Standards

Build Confidence
and Master
Math Skills

Test-Taking
Practice for
Success

Answer Key
for Easy
Review

10 Virginia SOL Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 practice rounds for SOL, built around blue ridge views, historic roads, and clear thinking habits, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Virginia Math Explorer!

Ten steady rounds on the Old Dominion math route

This book gives you ten full Grade 3 practice tests for SOL. Each round uses blue ridge views, historic roads, and clear thinking habits to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Virginia Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for Virginia SOL review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Old Dominion math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Ten tests, 300 questions, and a full SOL review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Virginia book.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.

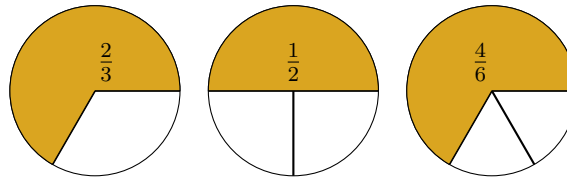


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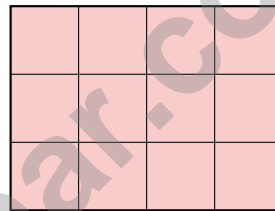
1) Look at the pies. Which two fractions are equivalent?



- A. The first and second C. The first and third
 B. The second and third D. All three

2) Which number sentence is false?

- A. $2 \times 9 = 9 \times 2$ C. $8 \times 6 = 7 \times 6 + 1$
 B. $(2 \times 3) \times 3 = 2 \times (3 \times 3)$ D. $4 \times (2 + 3) = 4 \times 2 + 4 \times 3$



3)

Use the grid to find the area. How many unit squares cover the rectangle?

- A. 10 unit squares C. 12 unit squares
 B. 11 unit squares D. 14 unit squares

4) A square has an area of 25 square inches. How long is each side?

- A. 5 inches C. 6 inches
 B. 4 inches D. 12 inches



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1) What is 147 rounded to the nearest 10?

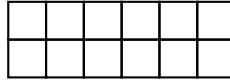
A. 140

C. 150

B. 147

D. 200

2) Look at this rectangular grid:



How many unit squares are in this shape?

A. 8 unit squares

C. 12 unit squares

B. 10 unit squares

D. 14 unit squares

3) A rectangle is partitioned into two parts with areas 21 and 12. Both share a width of 3. Which equation uses the distributive property to add the two smaller areas?

A. $3 \times (7 + 4) = 3 \times 11 = 33$

C. $3 + 7 + 4 = 14$

B. $3 \times (7 + 4) = (3 \times 7) + (3 \times 4) = 21 + 12 = 33$

D. $(7 \times 4) + (3) = 31$

4) A bar graph shows minutes played at recess. Each unit is 2 minutes. Sofia's bar is 5 units. How many minutes did Sofia play?

A. 7

C. 12

B. 10

D. 15

5) Lily multiplies: $7 \times 9 = 63$.

Both 7 and 9 are odd. Why is 63 also odd?

A. Because 7 and 9 are both greater than 5

C. Because 63 is less than 100

B. Because we added instead of multiplied

D. Because odd numbers times odd numbers always make odd



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6) What is $40 \div 5$?

A. 7

C. 9

B. 10

D. 8

7) Lily has 16 strawberries. She puts them equally into 2 bowls. How many strawberries are in each bowl?

A. 7

C. 14

B. 18

D. 8

8) Eli shares 24 pencils equally among 3 friends. How many pencils does each friend get?

A. 8

C. 6

B. 7

D. 4

9) Sam has a rectangular poster. It is 4 inches wide and 6 inches long. What is the area of the poster?

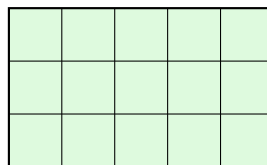
A. 10 sq in

C. 20 sq in

B. 24 sq in

D. 16 sq in

10) How many unit squares (each 1 inch by 1 inch) cover a rectangle that is 5 inches long and 3 inches wide?



5 inches

A. 8 unit squares

C. 15 unit squares

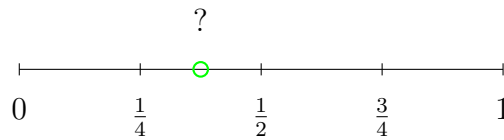
B. 12 unit squares

D. 20 unit squares



1) Which shape is always a rhombus, but NOT always a square?

- A. Rectangle C. Trapezoid
 B. Rhombus with angles that are not right angles D. Pentagon



2)

The green dot is halfway between $\frac{1}{4}$ and $\frac{1}{2}$. Which is true?

- A. The dot = $\frac{1}{4}$ C. $\frac{1}{4} < \text{the dot} < \frac{1}{2}$
 B. The dot $> \frac{1}{2}$ and $< \frac{3}{4}$ D. The dot = $\frac{1}{2}$

3) $308 + 175 = ?$

- A. 483 C. 475
 B. 484 D. 493

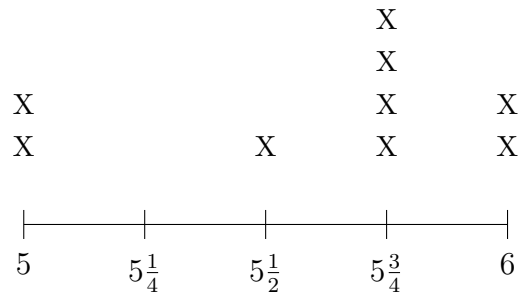
4) What is 145 rounded to the nearest 100?

- A. 100 C. 150
 B. 140 D. 200

5) Find $18 \div 6$.

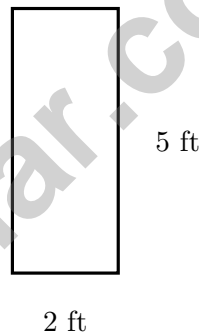


6) A line plot shows book lengths in inches with quarters: $5, 5\frac{1}{4}, 5\frac{1}{2}, 5\frac{3}{4}, 6$.



What is the least common book length?

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



7)

A vertical rectangle is 2 feet wide and 5 feet tall. What is the area?

- A. 7 sq ft C. 15 sq ft
 B. 10 sq ft D. 20 sq ft



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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.NS.3)** $\frac{2}{3}$ and $\frac{4}{6}$ show the same shaded amount.
- 2) **Choice C is correct.** **(3.PS.1)** This is false. $8 \times 6 = 48$ but $7 \times 6 + 1 = 42 + 1 = 43$. Option C does not follow any property.
- 3) **Choice C is correct.** **(3.MG.1)** The rectangle is $4 \times 3 = 12$ unit squares.
- 4) **Choice A is correct.** **(3.MG.2)** If the area is 25 square inches and it is a square, then $5 \times 5 = 25$, so each side is 5 inches.
- 5) **Choice D is correct.** **(3.NS.1)** $40 \div 5 = 8$ because $8 \times 5 = 40$.
- 6) **Choice D is correct.** **(3.CE.2)** Divide: $42 \div 6 = 7$ kennel rooms needed.
- 7) **Choice C is correct.** **(3.NS.1)** $5 \times 6 = 30$ square units.
- 8) **Choice A is correct.** **(3.PFA.1)** Ones: $8 + 5 = 13$ (write 3, carry 1). Tens: $1 + 7 + 1 = 9$. Hundreds: $2 + 1 = 3$. Answer: 393.
- 9) **Choice D is correct.** **(3.PS.1)** Step 1: Total prizes: $3 \times 9 = 27$ prizes. Step 2: Give away: $27 - 10 = 17$ prizes left.
- 10) **Choice B is correct.** **(3.NS.1)** Use the distributive property: multiply 6 by each part, then add.
- 11) **Choice C is correct.** **(3.MG.1)** Count by rows: $5 + 5 + 5 + 5 = 20$ unit squares. This is one way to count area.
- 12) **Choice A is correct.** **(3.MG.2)** The grid has 8 columns and 5 rows. Area = $8 \times 5 = 40$ square units. You can also add: $8 + 8 + 8 + 8 + 8 = 40$ (five rows of eight).
- 13) **Choice D is correct.** **(3.NS.1)** $\frac{2}{4}$ and $\frac{4}{8}$ are equivalent because both show one-half of the bar shaded. When denominator doubles, the numerator also doubles to maintain the same-size region.
- 14) **Choices A and D are correct.** **(3.NS.1)** 5×3 means “five groups of three,” giving $3 + 3 + 3 + 3 + 3 = 15$ (choice A and D are both correct). Choice C is the reverse order (commutative, also equals 15). Choice B is addition. Choice E is incorrect. Technically A, C, and D are all mathematically valid for 5×3 , but the most direct answers matching the notation are A (five groups of three) and D (the repeated addition form of five threes).
- 15) **The correct answer is 200.** **(3.NS.1)** Multiply $4 \times 5 = 20$, then add one zero: $4 \times 50 = 200$.
- 16) **Choice A is correct.** **(3.PS.1)** Tom: $3 \times 10 = 30$. Sue: $2 \times 10 = 20$. Difference: $30 - 20 = 10$.
- 17) **Choice B is correct.** **(3.MG.1)** 8000 mL is more than 6000 mL. So Fountain B holds less.
- 18) **Choice D is correct.** **(3.NS.1)** Making equal groups (necklaces) is a division problem. Divide 28 by 7 to find how many beads per necklace: $28 \div 7 = 4$.
- 19) **Choice B is correct.** **(3.NS.2)** The pizza is cut into 3 equal slices. One slice is one unit fraction, so Noah eats $\frac{1}{3}$ of the pizza.
- 20) **Choice C is correct.** **(3.MG.2)** Count the rows: 5 rows. Count across: 6 tiles in each row. Total: $6 + 6 + 6 + 6 + 6 = 30$ unit square tiles are needed.
- 21) **Choice C is correct.** **(3.CE.1)** A quadrilateral with two pairs of parallel sides is called a parallelogram. A trapezoid has only one pair of parallel sides.
- 22) **Choice C is correct.** **(3.NS.1)** The ones digit is 7. Since $7 \geq 5$, round up: 267 rounds to 270.
- 23) **Choice D is correct.** **(3.CE.2)** In this fact family, $24 \div 3 = 8$. This is the division equation that matches the multiplication $3 \times 8 = 24$.
- 24) **Choice B is correct.** **(3.NS.1)** 6 halves divided by 2 halves per whole = $6 \div 2 = 3$ wholes.
- 25) **Choice A is correct.** **(3.NS.1)** Point X is at $\frac{1}{4}$, while Point Y is at $\frac{1}{8}$. Since $\frac{1}{4} = \frac{2}{8}$, Point X is farther from 0.
- 26) **The correct answer is 12 : 00.** **(3.MG.3)** $10 : 45 + 1$ hour is $11 : 45$, plus 15 minutes is $12 : 00$.
- 27) **Choice B is correct.** **(3.MG.2)** Add the areas: $21 + 18 = 39$ square units.
- 28) **Choice B is correct.** **(3.MG.1)** At $2\frac{1}{4}$ feet there are 2 X's. At $2\frac{3}{4}$ feet there are also 2 X's.
- 29) **Choice D is correct.** **(3.CE.2)** $27 \div 3 = \square$ means $\square \times 3 = 27$. Since $9 \times 3 = 27$, each friend gets 9 marbles.
- 30) **The correct answer is 35 sq cm.** **(3.NS.1)** Area = length \times width, so $7 \times 5 = 35$ square centimeters.



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Hi, Math Inventor!

◇ 10 practice tests. 10 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

Inventor tip: on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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

Jay Daie

Your Math Inventor

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Give your child the advantage they need in **Grade 3 Math** with 10 full-length practice tests that build skills, boost confidence, and improve results. Designed to mirror real test formats, this book helps students master essential math concepts and feel ready for any challenge.



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