

7 Virginia SOL Grade 3 Math Practice Tests

Comprehensive Test Prep with Detailed Answers

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CHALLENGE SERIES

7 Practice Tests to Train Like a Champion!

Welcome, math champion! 🏆

You've got **7 full-length practice tests** ahead of you — that's the kind of serious training that turns good math students into great ones. Athletes train before the big game, and that's exactly what you're doing here!

🏆 Each test sharpens your **skills!**

🏆 Each test builds your **speed!**

🏆 By test 7, you'll be **unstoppable!**

Lace up your math shoes — it's training time! 🏃

“Seven tests is a real commitment, and I'm impressed you're taking it on! By the end, you'll know these topics inside and out.”

Your Training Plan

How to get the most from 7 practice tests!

What's in Your Training Kit

- **7 Full-Length Practice Tests** — Enough to build real mastery over every Grade 3 math topic!
- **Complete Answer Key** — Detailed step-by-step explanations for every single question.
- **Reference Pages** — Math symbols chart and multiplication table to use during tests.
- **Champion Tracker** — Record your scores, set goals, and track your improvement.

3-Phase Training Plan

Phase 1: Warm-Up (Tests 1–2)

Take these without a timer. Get comfortable with the format. Review answers carefully. Identify your strong and weak topics.

Phase 2: Build Speed (Tests 3–5)

Start using a timer. Focus on the topics that tripped you up in Phase 1. Practice showing your work neatly. Compare scores to earlier tests!

Phase 3: Game Day (Tests 6–7)

Simulate full test conditions: quiet room, timed, no help. These are your final dress rehearsals. You've trained for this!

Multiple Choice

Choose the **best answer** from A, B, C, or D.

Champion strategy: Solve it first without looking at the choices. Then find your answer in the list. This prevents tricky wrong answers from confusing you!

Short Answer

Show your work and write a clear answer.

Champion strategy: Write out every step, then re-read the question to make sure you answered what it actually asked — not what you thought it asked!

“ The Champion’s Review ”

After every test: **(1)** Check your answers. **(2)** Read every explanation. **(3)** Write down topics to review. **(4)** Study those topics. **(5)** Take the next test. This cycle is what separates good scores from great ones!

 **7 tests, 7 chances to improve.** Champions aren't born — they're built through practice. You're already on your way! 

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💡 Champion Strategies 💡

Pro-level tips to help you perform your best!

🚩 Your Pre-Test Routine

Champions do the same routine before every game. Here's yours:

1. **Clear your desk.** Only pencils, eraser, scratch paper, and this book.
2. **Take 5 deep breaths.** Slow and steady. Feel your body relax.
3. **Set your goal.** Write it down: "Today I will..." (show my work, stay calm, check every answer).
4. **Start the timer** and go!

🔄 The 3-Pass Method

This is how the best test-takers work through a test:

- Pass 1: The Quick Sweep.** Go through every question. Answer the ones you know right away. Put a small dot next to the ones that need more thought.
- Pass 2: The Deep Dive.** Go back to the dotted questions. Read them again carefully. Use scratch paper. Try different strategies.
- Pass 3: The Final Check.** Review all your answers. Did you fill in every blank? Do any answers look weird? Double-check your math.

🧩 Crack Word Problems

1. Read the problem. Read it again.
2. Circle the **numbers**.
3. Underline the **question**.
4. Decide: add, subtract, multiply, or divide?
5. Solve. Check: does the answer make sense?

⚠️ Top 5 Mistakes

1. Answering too fast without reading
2. Using the wrong operation (+ instead of ×)
3. Forgetting to regroup (carry/borrow)
4. Misreading a number (36 vs. 63)
5. Leaving questions blank



“ With 7 tests, you can actually see your strategy improving! Pay attention to how you take each test, not just your score. Are you reading more carefully? Showing more work? Staying calmer? Those are champion moves! ”

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X¹ Math Reference Sheet X¹

You may use this page during your practice tests!

| Symbol | Name | What It Means | |
|---------------|------------------|---|-------------------|
| + | Plus (Add) | Put numbers together. | $3 + 5 = 8$ |
| - | Minus (Subtract) | Take away from a number. | $9 - 4 = 5$ |
| × | Times (Multiply) | Add equal groups. | $4 \times 3 = 12$ |
| ÷ | Divide | Split into equal groups. | $12 \div 3 = 4$ |
| = | Equals | Both sides are the same. | $2 + 3 = 5$ |
| > | Greater Than | The left number is bigger. | $7 > 3$ |
| < | Less Than | The left number is smaller. | $2 < 9$ |
| $\frac{1}{2}$ | Fraction Bar | Part of a whole. $\frac{1}{2}$ means 1 out of 2 equal parts | |

Key Math Words

- **Sum** — the answer when you add
- **Difference** — the answer when you subtract
- **Product** — the answer when you multiply
- **Quotient** — the answer when you divide
- **Factor** — a number you multiply
- **Array** — objects in rows and columns
- **Fraction** — a part of a whole
- **Numerator** — the top number in a fraction
- **Denominator** — the bottom number
- **Equation** — a math sentence with =
- **Estimate** — a smart guess, close to the real answer
- **Perimeter** — the distance around a shape
- **Area** — the space inside a shape
- **Rounding** — making a number simpler by going to the nearest ten or hundred

 **Word Problem Clue Words**

- **Add (+):** *in all, total, altogether, combined, sum, both, more*
- **Subtract (–):** *how many more, how many left, fewer, difference, remain*
- **Multiply (×):** *each, every, groups of, times, rows of, per*
- **Divide (÷):** *share equally, split, each group, how many groups, per*

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Contents



Practice Test 1 1

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PRACTICE TEST

1

Practice Test 1

 30 Questions

Before You Start

- ✓ *Read each question carefully before choosing your answer.*
- ✓ *Show your work on scratch paper when you need to.*
- ✓ *Skip hard questions and come back to them later.*
- ✓ *Check your answers when you're done.*
- ✓ *Take your time — there's no rush!*

★ *You've Got This!* ★

Do your best and show what you know!



1. What is 4,729 written in expanded form?

(A) $4,000 + 700 + 20 + 9$

(B) $4,000 + 72 + 9$

(C) $4 + 7 + 2 + 9$

(D) $400 + 70 + 29$

2. Leo rounded 249 to the nearest 100 and got 300. What is the correct answer?

(A) 100

(B) 200

(C) 250

(D) 300

3. Which number is even?

(A) 43

(B) 57

(C) 64

(D) 81

4. Which number comes next in this pattern?

2,000, 4,000, 6,000, 8,000, ?

(A) 8,500

(B) 9,000

(C) 10,000

(D) 12,000

5. Two towns have 4,250 and 5,780 people. Round each to the nearest 1,000 and estimate the total population.

(A) 9,000

(B) 10,000

(C) 11,000

(D) 10,030



12. Which of these fractions equals 0?

(A) $\frac{1}{1}$

(B) $\frac{0}{4}$

(C) $\frac{4}{4}$

(D) $\frac{4}{0}$

13. When two fractions have the same numerator but different denominators, which fraction is greater?

(A) The one with the bigger denominator

(B) The one with the smaller denominator

(C) They are always equal

(D) You cannot compare them

14. What is $\frac{2}{6} + \frac{1}{6}$?

Your Answer:

15. What is $\frac{5}{6} - \frac{2}{6}$?

(A) $\frac{3}{6}$

(B) $\frac{3}{12}$

(C) $\frac{7}{6}$

(D) $\frac{2}{6}$

16. What is $\frac{9}{6}$ written as a mixed number?

(A) $1\frac{3}{6}$

(B) $1\frac{1}{6}$

(C) $2\frac{3}{6}$

(D) $6\frac{3}{9}$



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23. A line plot shows the lengths of nails in inches. The data points are: 1, 1, $1\frac{1}{2}$, 2, 2, 2, $2\frac{1}{2}$, $2\frac{1}{2}$. How many X marks should be placed above 2 inches?

Your Answer:

24. A bag has 8 red marbles and 2 blue marbles. If you pick one without looking, which color are you more likely to pick?

- (A) Blue (B) Red
(C) Both are equally likely. (D) Neither — it is impossible to tell.

25. The Great Pyramid of Giza has a square base. How many total faces does it have?

- (A) 4 (B) 5
(C) 6 (D) 8

26. An L-shaped figure is made of 3 small rectangles. The first has 6 unit squares, the second has 4 unit squares, and the third has 5 unit squares. What is the total area?

- (A) 10 square units (B) 11 square units
(C) 15 square units (D) 20 square units

27. A rectangle is 8 cm long and 5 cm wide. What is its area?

- (A) 13 sq cm (B) 26 sq cm
(C) 40 sq cm (D) 45 sq cm



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28. How are a ray and a line segment different?

Your Answer:

29. A polygon has 2 fewer sides than a decagon. What polygon is it, and how many sides does it have?

Your Answer:

30. Two pentagons both have sides of 5 cm each and are both regular. Are they congruent? Why?

Your Answer:

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★ *End of Practice Test 1* ★

Great job finishing the test!

 **My Score**

I got _____ out of 30 questions right.

*Check your answers in the **Answer Key** at the back of the book.*

 *Review any questions you missed. That's how we learn!*

THANK YOU

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- ✓ *Complete answer key with explanations*
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- ✓ *Reference sheets and progress trackers*

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