Virginia SOL 4th Grade Math Workbook

Comprehensive Practice, Challenging Exercises, and Strategic Guidance for Complete Test-Day Confidence



- Strengthen Every Key Skill
- Sharpen Math Skills the Smart Way
- Essential Practice for Real Growth



Practice Master Achieve

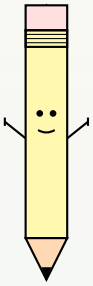
Reza Nazari

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Professor Owl



Pip

with Professor Owl and Pip

Reza Nazari

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★ Virginia Sports Teams — Math on the Field! ★

- ★ **Washington Commanders (NFL Football, Landover)** — Virginia fans follow the Commanders using **statistics and percentages** to track every play, touchdown, and first down of the season.
- ★ **Virginia Cavaliers (Basketball & Football)** — UVA's national championship basketball program uses **statistics, decimals, and data** to build one of college basketball's most disciplined teams.
- ★ **Virginia Tech Hokies (Football)** — One of college football's most passionate fan bases! Coaches use **statistics, measurement, and data** to build championship-caliber programs. Enter Sandman!
- ★ **Richmond Flying Squirrels (Minor League Baseball)** — Scorekeepers use **decimals and fractions** to track batting averages and pitching statistics for San Francisco Giants prospects.

The math skill? Master **data, decimals, statistics, and measurement** — think like a Virginia sports champion!



Math master! Scan it!

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★ Virginia Careers — Your Math Future is Bright! ★

Virginia needs math-smart people in every career!

- ★ **Cybersecurity Analyst (Tysons Corner / Pentagon)** — **Patterns, large numbers, and logic** to protect government and business computer systems in America's cybersecurity capital.
- ★ **Aerospace Engineer (Langley Research Center)** — **Geometry, measurement, and large numbers** to conduct cutting-edge aeronautics research at NASA's oldest field center.
- ★ **Naval Engineer (Norfolk Naval Station)** — **Geometry and measurement** to design and maintain the world's largest naval base and the fleet that protects America.
- ★ **Doctor or Researcher (UVA / VCU Medical)** — **Fractions, decimals, and data** to develop treatments and provide care at Virginia's world-class medical institutions.
- ★ **Agricultural Scientist** — **Area, fractions, and data** to improve Virginia's apple, poultry, and cattle farming across the Shenandoah Valley.

★ The Skills in This Workbook Are Virginia's Future! ★

Every worksheet you finish and every problem you solve is building the Virginia that tomorrow needs. You are not just learning math — **you are becoming the engineer, the doctor, the coach, the scientist, or the leader** Virginia is counting on!

Now let's dive in — Virginia is rooting for you! ★

Ready to show what you know? Turn the page and let's get started. Every problem you solve brings you one step closer to an incredible future right here in the great state of Virginia!

The Old Dominion State needs ***math champions like you!***



Adding Multi-Digit Numbers

Add 24,587 + 38,645

	TTh	Th	H	T	O
	2^{1}	4^{1}	5	8^{1}	7
+	3	8	6	4	5
	6	3	2	3	2

Steps to Add

1. Add the **ones**: $7 + 5 = 12$
   Write 2, carry 1
2. Add the **tens**: $8 + 4 + 1 = 13$
   Write 3, carry 1
3. Add **hundreds**: $5 + 6 + 1 = 12$
   Write 2, carry 1
4. Continue left for all places

Answer: 24,587 + 38,645 = 63,232

✎ Practice Questions

Add.

1. 34,215 + 23,462 = _____

2. 56,789 + 28,345 = _____

3. 47,856 + 35,978 = _____

4. 128,450 + 64,375 = _____

5. 253,618 + 147,295 = _____

6. 485,237 + 314,586 = _____

Find the missing number.

7. 42,500 + _____ = 75,000

8. _____ + 135,800 = 250,000

9. 67,250 + _____ = 100,000

10. _____ + 289,400 = 500,000

Challenge!

11. A school district has three schools. Oak School has 12,345 students. Pine School has 9,876 students. Maple School has 15,432 students. How many students are there in all?

_____

"Digits need to stand in their own lanes! Line them up by place value so ones are with ones, tens with tens—no mixing! Then add from right to left, like reading the end of a story first."

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Keep trying! Scan here!

Subtracting Multi-Digit Numbers

Subtract 52,413 − 28,675

	TTh	Th	H	T	O
	5	2	4	1	3
−	2	8	6	7	5
	2	3	7	3	8

Steps to Subtract

1. **Ones**: Can't do $3 - 5$ Regroup: $13 - 5 = 8$
2. **Tens**: Can't do $0 - 7$ Regroup: $10 - 7 = 3$
3. **Hundreds**: $3 - 6$? Regroup! $13 - 6 = 7$
4. Continue left for all places

Answer: 52,413 − 28,675 = 23,738

✎ Practice Questions

Subtract.

1. 67,842 − 34,521 = _____

2. 85,230 − 47,618 = _____

3. 43,005 − 18,267 = _____

4. 90,000 − 36,478 = _____

5. 172,500 − 89,375 = _____

6. 500,000 − 234,167 = _____

Find the missing number.

7. 80,000 − _____ = 45,250

8. _____ − 27,650 = 52,350

9. 150,000 − _____ = 68,425

10. _____ − 145,300 = 254,700

Challenge!

11. A city has 125,400 residents. During the year, 8,375 people moved away and 6,210 new people moved in. What is the new population? _____ residents

12. A warehouse had 500,000 boxes. It shipped 127,850 boxes in week 1 and 98,425 in week 2. Then it received 45,000 new boxes. How many boxes are in the warehouse now?

_____



"Top digit too small? Borrow from your left neighbor! Add 10 to the little guy, pay back 1 to the neighbor—it's like asking a friend for change. "Can I break a ten?" Yes, you can! Regroup and conquer!"



Test prep? Scan here!

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Estimating Sums and Differences

Estimating Sums

Estimate: $4{,}723 + 3{,}189$

Round to nearest 1,000:

$5{,}000 + 3{,}000 \approx$ **8,000**

Estimating Differences

Estimate: $8{,}412 - 2{,}678$

Round to nearest 1,000:

$8{,}000 - 3{,}000 \approx$ **5,000**

Steps: 1) Round each number 2) Add or subtract the rounded numbers

✎ Practice Questions

Estimate each sum by rounding to the nearest 1,000.

1. $3{,}412 + 5{,}287 \approx$ _____ **2.** $7{,}650 + 4{,}180 \approx$ _____ **3.** $12{,}345 + 8{,}712 \approx$ _____

Estimate each difference by rounding to the nearest 1,000.

4. $9{,}823 - 4{,}156 \approx$ _____ **5.** $15{,}480 - 7{,}320 \approx$ _____ **6.** $42{,}750 - 18{,}200 \approx$ _____

Estimate by rounding to the nearest 100.

7. $4{,}235 + 2{,}870 \approx$ _____ **8.** $6{,}518 - 2{,}467 \approx$ _____ **9.** $8{,}045 + 3{,}682 \approx$ _____

Estimate, then solve. Is your answer reasonable?

10. $6{,}475 + 3{,}218$

Estimate: _____ Exact: _____

11. $15{,}300 - 8{,}745$

Estimate: _____ Exact: _____

Challenge!

12. Ava has \$8,475. She wants to buy a laptop for \$3,289 and a printer for \$4,150. Estimate to see if she has enough, then find the exact total.

Estimate: _____ Exact: _____

13. A store's weekend sales were \$12,845 on Saturday and \$9,672 on Sunday. Estimate the total sales, then find the exact amount. Estimate: _____ Exact: _____



"Round first, then calculate—like a quick "ballpark" before the real game! If your exact answer is way off from your estimate, something's fishy. Time to double-check. Your estimate is your answer's best friend!"

Scan Me

Number ninja! Scan it!

