Wisconsin Forwath Exam 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

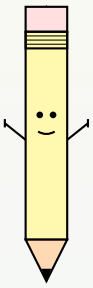
Reza Nazari

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



Professor Owl



Pip

with Professor Owl and Pip

Reza Nazari

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★ Wisconsin Sports Teams — Math on the Field! ★

- ★ **Green Bay Packers (NFL Football)** — The only publicly owned team in major U.S. sports! Coaches use **statistics and percentages** to design plays. Go Pack Go fans track every score using **addition**!
- ★ **Milwaukee Brewers (MLB Baseball)** — Batting averages, home run totals, and ERAs are all calculated using **fractions, decimals, and data** across a 162-game season.
- ★ **Milwaukee Bucks (NBA Basketball)** — NBA champions! Coaches and analysts use **decimals and data** to track Giannis's points per game, defensive ratings, and player efficiency.
- ★ **Wisconsin Badgers (Football & Hockey)** — One of the Big Ten's great programs! Coaches use **statistics, measurement, and data** to compete for conference championships year after year.

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



Math power! Scan now!

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★ Wisconsin Careers — Your Math Future is Bright! ★

Wisconsin needs math-smart people in every career!

- ★ **Dairy Scientist or Cheesemaker — Fractions, measurement, and data** to create Wisconsin's world-famous cheddar, Colby, and artisan cheeses enjoyed across the globe.
- ★ **Medical Device Engineer (GE Healthcare, Waukesha) — Geometry, measurement, and fractions** to design MRI machines and imaging technology saving lives in hospitals worldwide.
- ★ **Paper & Printing Engineer — Measurement, fractions, and large numbers** to produce paper and printed materials at Wisconsin's many world-class paper mills.
- ★ **Agricultural Scientist — Area, fractions, and data** to improve Wisconsin's dairy, corn, soybean, and cranberry farming.
- ★ **Environmental Scientist — Data, decimals, and measurement** to protect Wisconsin's lakes, rivers, and the Great Lakes ecosystems that millions depend on.

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

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

Now let's dive in — Wisconsin 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 Wisconsin!

America's Dairyland needs ***math champions like you!***



You're smart!
Scan it!

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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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Place value! Scan now!



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!"



Mult. champ! Scan it!

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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!"

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Math superstar! Scan here!

