

Grade 3 · Adding and Subtracting Within 1,000

· Lesson

Common Core 3.NBT.A.2 · mathovore.fr

To add or subtract within 1,000, line up the digits by place value and work from the ones to the hundreds. Regroup 10 ones as 1 ten, or 1 hundred as 10 tens, when needed. You can also use number line jumps, base-ten blocks, or the standard algorithm, then check with the inverse operation.

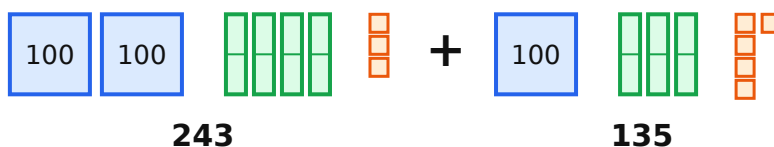
Grade 3 Common Core: 3.NBT.A.2

Key facts:

- Add or subtract ones, tens, and hundreds in that order.
- Regroup when ones or tens add to 10 or more, or when there are too few to subtract.
- Addition and subtraction undo each other, so you can check with the inverse.
- Estimating by rounding tells you whether the answer makes sense.

What does it mean to add and subtract within 1,000?

Adding and subtracting **within 1,000** means working with numbers up to 999 and getting an answer that is also less than 1,000. Every digit has a place: ones, tens, or hundreds. When you add or subtract, you work with each place and keep the value of every digit in mind.

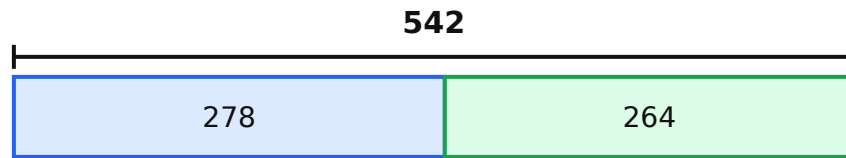


Blocks for 243 and 135: add hundreds, tens, and ones separately.

The blocks show $243 + 135$. Add the hundreds: $200 + 100 = 300$. Add the tens: $40 + 30 = 70$. Add the ones: $3 + 5 = 8$. The total is 378.

Key words

Regroup means to trade 10 of one place for 1 of the next place, such as 10 ones for 1 ten. **Estimate** means to find an answer that is close, usually by rounding. The **inverse operation** of addition is subtraction, and the other way around.



A tape diagram: $278 + 264 = 542$, so $542 - 278 = 264$.

Strategy	Best used when
Place value blocks	You want to see each place
Number line jumps	You want to add or subtract in your head
Make a friendly number	One number is close to a hundred, such as 299
Standard algorithm	The numbers are large and you need to regroup

Adding and Subtracting Within 1,000: frequently asked questions

What does within 1,000 mean?

It means the numbers you add or subtract, and the answer, are all less than 1,000. In third grade the answers have at most three digits.

What is regrouping in addition?

Regrouping means trading 10 of one place for 1 of the next place. If ones add up to 10 or more, trade 10 ones for 1 ten and write the extra ones.

How do you subtract across a zero, like $600 - 257$?

Regroup 1 hundred as 10 tens, then regroup 1 ten as 10 ones. Now 600 is 5 hundreds, 9 tens, and 10 ones, so each place can be subtracted. The answer is 343.

How can you check a subtraction answer?

Add the answer to the number you subtracted. The sum must equal the starting number. You can also estimate by rounding both numbers to the nearest ten or hundred.

Which strategy is best for adding two numbers?

Any strategy that gives the correct answer is good. Number line jumps and place value work well for mental math, and the standard algorithm is fast for large numbers.