

Adding and Subtracting Within 1,000: practice solutions, Grade 2 – download the PDF

Written solutions to the chapter problems. Check each step, then correct yourself.

1 Adding blocks



Maria has $300 + 60 + 4 = 364$. Jonah has $200 + 10 + 5 = 215$.

Ones: $4 + 5 = 9$. Tens: $6 + 1 = 7$. Hundreds: $3 + 2 = 5$.

$364 + 215 = 579$. Together they have 579.

2 Add column by column



a. $421 + 356 = 777$

b. $534 + 245 = 779$

c. $612 + 176 = 788$

d. $203 + 405 = 608$

In each one I added the ones, then the tens, then the hundreds. No column reached 10, so I did not need to regroup.

3 Subtract column by column



a. $758 - 324 = 434$

b. $689 - 453 = 236$

c. $947 - 713 = 234$

d. $805 - 304 = 501$

Every top digit was big enough, so no trading was needed.

4 Do I need to regroup?



a. $6 + 5 = 11$ cubes. Yes: 10 cubes make 1 more rod, and 1 cube is left.

b. Ones: 1. Tens: $2 + 3 + 1 = 6$. Hundreds: $1 + 1 = 2$. So $126 + 135 = 261$.

5 Mystery digit



a. Tens: $\square + 1 = 7$, so $\square = 6$. Check: $465 + 213 = 678$.

b. Tens: $\square - 1 = 3$, so $\square = 4$. Check: $742 - 310 = 432$.

6 Library shelves



$342 + 125 = 467$.

The library has 467 books in all.

7 True or false?



- a. True: 3 hundreds + 4 hundreds = 7 hundreds.
- b. False: 8 hundreds — 3 hundreds = 5 hundreds, so $800 - 300 = 500$.
- c. True: 25 tens + 25 tens = 50 tens = 500.
- d. False: $750 - 250 = 500$, because $250 + 500 = 750$.

8 Regroup the ones



Ones: $8 + 7 = 15$, which is 1 ten and 5 ones. I regrouped the ones.

Tens: $3 + 5 + 1 = 9$. Hundreds: $2 + 1 = 3$.

$$238 + 157 = 395.$$

9 Regroup the tens



Ones: $4 + 3 = 7$. Tens: $7 + 8 = 15$ tens, which is 1 hundred and 5 tens. I regrouped the tens.

Hundreds: $3 + 2 + 1 = 6$.

$$374 + 283 = 657.$$

10 Regroup twice



Ones: $6 + 9 = 15$, so 5 ones and 1 ten to carry.

Tens: $8 + 4 + 1 = 13$, so 3 tens and 1 hundred to carry.

Hundreds: $4 + 3 + 1 = 8$.

$$486 + 349 = 835.$$

11 Trade once



a. Ones: $4 < 9$, so trade: $14 - 9 = 5$. Tens: $5 - 2 = 3$ (the 6 became 5). Hundreds: $7 - 3 = 4$. $764 - 329 = 435$. Check: $435 + 329 = 764$.

b. Ones: $13 - 7 = 6$. Tens: $4 - 1 = 3$ (the 5 became 4). Hundreds: $8 - 2 = 6$. $853 - 217 = 636$. Check: $636 + 217 = 853$.

12 Trade twice



Ones: $1 < 4$. Trade 1 ten for 10 ones: $11 - 4 = 7$. The 2 tens become 1 ten.

Tens: $1 < 7$. Trade 1 hundred for 10 tens: $11 - 7 = 4$. The 6 hundreds become 5.

Hundreds: $5 - 3 = 2$.

$621 - 374 = 247$. Check: $247 + 374 = 621$.

13 Ticket sale



a. $275 + 168 = 443$ tickets.

b. $500 - 443 = 57$. They must sell 57 more tickets. Check: $443 + 57 = 500$.

14 Find the mistake



No. Ones: $2 + 9 = 11$, so 1 one and 1 ten. Tens: $5 + 8 + 1 = 14$, so 4 tens and 1 hundred.

Hundreds: $3 + 1 + 1 = 5$.

Mia forgot to add the regrouped hundred. The correct sum is $352 + 189 = 541$.

15 Quick estimates



a. Estimate: $400 + 200 = 600$. Exact: $389 + 212 = 601$.

b. Estimate: $700 - 300 = 400$. Exact: $703 - 296 = 407$.

Both exact answers are close to the estimates, so they make sense.

16 Subtracting across zeros



a. Trade 1 hundred for 10 tens, then 1 ten for 10 ones: 5 hundreds, 9 tens, 10 ones.

$10 - 7 = 3$, $9 - 5 = 4$, $5 - 3 = 2$. $600 - 357 = 243$. Check: $357 + 243 = 600$.

b. $400 - 168 = 232$. Check: $168 + 232 = 400$.

c. 805 is 7 hundreds, 9 tens and 15 ones. $15 - 9 = 6$, $9 - 4 = 5$, $7 - 4 = 3$.

$805 - 449 = 356$. Check: $449 + 356 = 805$.

17 Counting up



Start at 268. Jump to 300: $+32$. Jump to 500: $+200$. Jump to 531: $+31$.

$32 + 200 + 31 = 263$. So $531 - 268 = 263$. Check: $268 + 263 = 531$.

18 Friendly hundreds



Change the order (commutative property) and group $275 + 25$ (associative property):

$275 + 25 = 300$, and $300 + 138 = 438$.

So $275 + 138 + 25 = 438$.

19 Which is greater?



$468 + 275 = 743$ and $812 - 90 = 722$.

743 is greater. $743 - 722 = 21$, so it is greater by 21.

20 Missing number



a. $\square = 561 - 278 = 283$. Check: $283 + 278 = 561$.

b. $\square = 904 - 547 = 357$. Check: $904 - 357 = 547$.

21 Fruit stand



Step 1: $356 + 278 = 634$ pieces picked.

Step 2: $634 - 415 = 219$.

There are 219 pieces of fruit left. Estimate check: $600 - 400 = 200$, which is close to 219.

22 Explain Sam's strategy



Sam subtracted 400, but he only needed to subtract 389. That is 11 too many, so the answer must be 11 bigger.

$300 + 11 = 311$, so $700 - 389 = 311$. Check: $311 + 389 = 700$.



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