

Grade 2 · Adding and Subtracting Within 1,000

· Worksheet Answer Key

Common Core 2.NBT.B.7, 2.NBT.B.8 · mathovore.fr

Here are worked answers for all 24 problems. Each answer shows every carry and trade.
Final answers are in bold. Use them to check work and to find where a mistake happened.

Grade 2 Common Core: 2.NBT.B.7 · 2.NBT.B.8

Problem 1: Add hundreds

Add the hundreds. The other digits stay the same.

- a. $200+500=700$. 700
- b. $340+200=540$. 540
- c. $125+300=425$. 425
- d. $410+400=810$. 810

Problem 2: Blocks without regrouping

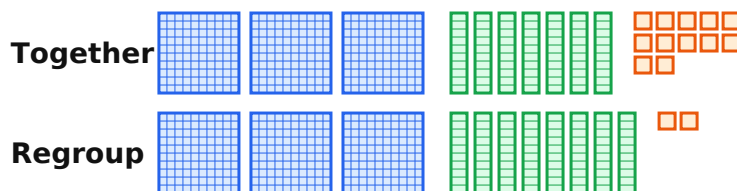
Hundreds: $2+1=3$. Tens: $1+2=3$. Ones: $3+4=7$. 3 hundreds, 3 tens and 7 ones is 337.
 $213+124=337$

Problem 3: Add with no carrying

- a. Ones: $2+6=8$. Tens: $4+5=9$. Hundreds: $3+1=4$. $342+156=498$
- b. Ones: $1+7=8$. Tens: $2+6=8$. Hundreds: $5+2=7$. $521+267=788$
- c. Ones: $5+3=8$. Tens: $3+6=9$. Hundreds: $6+1=7$. $635+163=798$
- d. Ones: $4+5=9$. Tens: $0+8=8$. Hundreds: $7+1=8$. $704+185=889$

Problem 4: Carry the ones

Ones: $7+5=12$. Trade 10 ones for 1 ten, so 2 ones are left. Tens: $4+3+1=8$. Hundreds: $2+1=3$.



10 ones are traded for 1 ten.

$$247+135=382$$

Problem 5: Carry the tens

- a. Ones: $1+0=1$. Tens: $8+5=13$. That is 1 hundred and 3 tens. Write 3, carry 1. Hundreds: $2+1+1=4$. $281+150=431$
- b. Ones: $5+0=5$. Tens: $6+8=14$. That is 1 hundred and 4 tens. Write 4, carry 1. Hundreds: $3+2+1=6$. $365+280=645$
- c. Ones: $2+0=2$. Tens: $7+6=13$. That is 1 hundred and 3 tens. Write 3, carry 1. Hundreds: $4+3+1=8$. $472+360=832$
- d. Ones: $4+0=4$. Tens: $5+7=12$. That is 1 hundred and 2 tens. Write 2, carry 1. Hundreds: $1+2+1=4$. $154+270=424$

Problem 6: Carry twice

- a. Ones: $8+7=15$. That is 1 ten and 5 ones. Write 5, carry 1. Tens: $5+6+1=12$. That is 1 hundred and 2 tens. Write 2, carry 1. Hundreds: $3+1+1=5$. $358+167=525$
- b. Ones: $9+6=15$. That is 1 ten and 5 ones. Write 5, carry 1. Tens: $7+4+1=12$. That is 1 hundred and 2 tens. Write 2, carry 1. Hundreds: $4+2+1=7$. $479+246=725$
- c. Ones: $5+9=14$. That is 1 ten and 4 ones. Write 4, carry 1. Tens: $8+4+1=13$. That is 1 hundred and 3 tens. Write 3, carry 1. Hundreds: $2+3+1=6$. $285+349=634$
- d. Ones: $7+8=15$. That is 1 ten and 5 ones. Write 5, carry 1. Tens: $6+3+1=10$. That is 1 hundred and 0 tens. Write 0, carry 1. Hundreds: $5+2+1=8$. $567+238=805$

Problem 7: Subtract hundreds

Subtract the hundreds. The other digits stay the same.

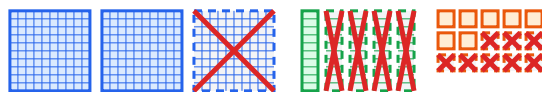
- a. $900-400=500$. 500
- b. $780-300=480$. 480
- c. $650-200=450$. 450
- d. $845-500=345$. 345

Problem 8: Subtract with no trading

- a. Ones: $7-3=4$. Tens: $8-5=3$. Hundreds: $4-2=2$. $487-253=234$
- b. Ones: $5-2=3$. Tens: $6-4=2$. Hundreds: $7-3=4$. $765-342=423$
- c. Ones: $8-4=4$. Tens: $9-6=3$. Hundreds: $5-2=3$. $598-264=334$
- d. Ones: $9-5=4$. Tens: $4-1=3$. Hundreds: $8-7=1$. $849-715=134$

Problem 9: Trade a ten for ones

Ones: 5 is less than 8, so trade 1 ten for 10 ones. Now there are 15 ones and 5 tens. Ones: $15-8=7$. Tens: $5-4=1$. Hundreds: $3-1=2$. $365-148=217$



Left: 2 hundreds, 1 ten and 7 ones.

Problem 10: Trade a hundred for tens

- Ones: $4 - 0 = 4$. Tens: 2 is less than 7, so trade 1 hundred for 10 tens. Now there are 12 tens and 4 hundreds. Tens: $12 - 7 = 5$. Hundreds: $4 - 3 = 1$. $524 - 370 = 154$
- Ones: $8 - 0 = 8$. Tens: 1 is less than 5, so trade 1 hundred for 10 tens. Now there are 11 tens and 5 hundreds. Tens: $11 - 5 = 6$. Hundreds: $5 - 2 = 3$. $618 - 250 = 368$
- Ones: $3 - 0 = 3$. Tens: 4 is less than 8, so trade 1 hundred for 10 tens. Now there are 14 tens and 6 hundreds. Tens: $14 - 8 = 6$. Hundreds: $6 - 3 = 3$. $743 - 380 = 363$
- Ones: $5 - 0 = 5$. Tens: 3 is less than 6, so trade 1 hundred for 10 tens. Now there are 13 tens and 7 hundreds. Tens: $13 - 6 = 7$. Hundreds: $7 - 4 = 3$. $835 - 460 = 375$

Problem 11: Trade twice

- Ones: 1 is less than 6, so trade 1 ten for 10 ones. Now there are 11 ones and 2 tens. Ones: $11 - 6 = 5$. Tens: 2 is less than 8, so trade 1 hundred for 10 tens. Now there are 12 tens and 3 hundreds. Tens: $12 - 8 = 4$. Hundreds: $3 - 2 = 1$. $431 - 286 = 145$
- Ones: 4 is less than 8, so trade 1 ten for 10 ones. Now there are 14 ones and 1 tens. Ones: $14 - 8 = 6$. Tens: 1 is less than 5, so trade 1 hundred for 10 tens. Now there are 11 tens and 6 hundreds. Tens: $11 - 5 = 6$. Hundreds: $6 - 3 = 3$. $724 - 358 = 366$
- Ones: 3 is less than 8, so trade 1 ten for 10 ones. Now there are 13 ones and 5 tens. Ones: $13 - 8 = 5$. Tens: 5 is less than 7, so trade 1 hundred for 10 tens. Now there are 15 tens and 4 hundreds. Tens: $15 - 7 = 8$. Hundreds: $4 - 2 = 2$. $563 - 278 = 285$
- Ones: 5 is less than 7, so trade 1 ten for 10 ones. Now there are 15 ones and 0 tens. Ones: $15 - 7 = 8$. Tens: 0 is less than 6, so trade 1 hundred for 10 tens. Now there are 10 tens and 7 hundreds. Tens: $10 - 6 = 4$. Hundreds: $7 - 4 = 3$. $815 - 467 = 348$

Problem 12: Zero in the tens place

- Ones: 0 is less than 3 and there are 0 tens. Trade 1 hundred for 10 tens, then trade 1 ten for 10 ones. Now there are 3 hundreds, 9 tens and 10 ones. Ones: $10 - 3 = 7$. Tens: $9 - 5 = 4$. Hundreds: $3 - 1 = 2$. $400 - 153 = 247$
- Ones: 0 is less than 8 and there are 0 tens. Trade 1 hundred for 10 tens, then trade 1 ten for 10 ones. Now there are 6 hundreds, 9 tens and 10 ones. Ones: $10 - 8 = 2$. Tens: $9 - 6 = 3$. Hundreds: $6 - 2 = 4$. $700 - 268 = 432$

Problem 13: Add 10 or 100 in your head

- $345 + 10 = 355$: the tens digit goes up by 1. 355
- $345 + 100 = 445$: the hundreds digit goes up by 1. 445

- c. $678+10=688$: the tens digit goes up by 1. 688
- d. $520+100=620$: the hundreds digit goes up by 1. 620

Problem 14: Subtract 10 or 100 in your head

- a. $482-10=472$: the tens digit goes down by 1. 472
- b. $482-100=382$: the hundreds digit goes down by 1. 382
- c. $760-10=750$: the tens digit goes down by 1. 750
- d. $905-100=805$: the hundreds digit goes down by 1. 805

Problem 15: Crossing a hundred

- a. 29 tens plus 1 ten is 30 tens, which is 300. 300
- b. 89 tens plus 1 ten is 90 tens, which is 900. 900
- c. 60 tens minus 1 ten is 59 tens, which is 590. 590
- d. 50 tens minus 1 ten is 49 tens, which is 490. 490

Problem 16: Missing number

- a. Subtract to find the missing part. Ones: 2 is less than 5, so trade 1 ten for 10 ones. Now there are 12 ones and 0 tens. Ones: $12-5=7$. Tens: 0 is less than 3, so trade 1 hundred for 10 tens. Now there are 10 tens and 5 hundreds. Tens: $10-3=7$. Hundreds: $5-2=3$. $612-235=377$ 377
- b. The missing number is the difference. Ones: 4 is less than 9 and there are 0 tens. Trade 1 hundred for 10 tens, then trade 1 ten for 10 ones. Now there are 7 hundreds, 9 tens and 14 ones. Ones: $14-9=5$. Tens: $9-5=4$. Hundreds: $7-4=3$. $804-459=345$ 345

Problem 17: Check by adding

Ones: 3 is less than 8, so trade 1 ten for 10 ones. Now there are 13 ones and 5 tens. Ones: $13-8=5$. Tens: 5 is less than 7, so trade 1 hundred for 10 tens. Now there are 15 tens and 4 hundreds. Tens: $15-7=8$. Hundreds: $4-2=2$. $563-278=285$

Check: Ones: $5+8=13$. That is 1 ten and 3 ones. Write 3, carry 1. Tens: $8+7+1=16$. That is 1 hundred and 6 tens. Write 6, carry 1. Hundreds: $2+2+1=5$. $285+278=563$

Problem 18: Find the mistake

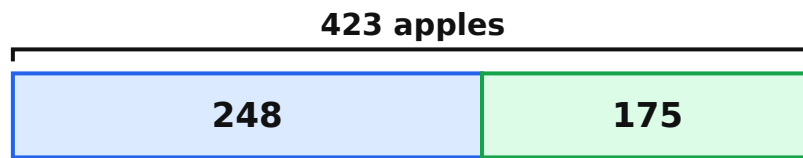
Jamal wrote the 5 and the 1 but forgot to carry. The 15 ones should give 1 ten, and the 11 tens should give 1 hundred.

Ones: $7+8=15$. That is 1 ten and 5 ones. Write 5, carry 1. Tens: $6+5+1=12$. That is 1 hundred and 2 tens. Write 2, carry 1. Hundreds: $2+1+1=4$. $267+158=425$

Check: $425 - 158 = 267$.

Problem 19: Farmers market apples

Ones: $8 + 5 = 13$. That is 1 ten and 3 ones. Write 3, carry 1. Tens: $4 + 7 + 1 = 12$. That is 1 hundred and 2 tens. Write 2, carry 1. Hundreds: $2 + 1 + 1 = 4$. $248 + 175 = 423$



The total is 423.

Check: $423 - 175 = 248$. **Diego sells 423 apples.**

Problem 20: Library books

Ones: 2 is less than 7, so trade 1 ten for 10 ones. Now there are 12 ones and 0 tens. Ones: $12 - 7 = 5$. Tens: 0 is less than 8, so trade 1 hundred for 10 tens. Now there are 10 tens and 4 hundreds. Tens: $10 - 8 = 2$. Hundreds: $4 - 1 = 3$. $512 - 187 = 325$

Check: $325 + 187 = 512$. **325 books are left.**

Problem 21: Road trip miles

- a. Ones: $8 + 6 = 14$. That is 1 ten and 4 ones. Write 4, carry 1. Tens: $5 + 7 + 1 = 13$. That is 1 hundred and 3 tens. Write 3, carry 1. Hundreds: $3 + 2 + 1 = 6$. $358 + 276 = 634$
- b. Ones: $8 - 6 = 2$. Tens: 5 is less than 7, so trade 1 hundred for 10 tens. Now there are 15 tens and 2 hundreds. Tens: $15 - 7 = 8$. Hundreds: $2 - 2 = 0$. $358 - 276 = 82$

Check: $82 + 276 = 358$. **634 miles in all, and 82 more miles on Day 1.**

Problem 22: Sticker collection

Step 1: Ones: $5 + 0 = 5$. Tens: $2 + 5 = 7$. Hundreds: $3 + 1 = 4$. $325 + 150 = 475$

Step 2: Ones: $5 - 5 = 0$. Tens: $7 - 7 = 0$. Hundreds: $4 - 2 = 2$. $475 - 275 = 200$

Priya has 200 stickers.

Problem 23: Theater seats

The empty seats start at 740. After 100 seats are taken: $740 - 100 = 640$. After 10 more people sit: $640 - 10 = 630$.

630 **seats are empty.**

Problem 24: Bake sale cookies

Step 1: Ones: $6+9=15$. That is 1 ten and 5 ones. Write 5, carry 1. Tens: $5+8+1=14$. That is 1 hundred and 4 tens. Write 4, carry 1. Hundreds: $2+1+1=4$. $256+189=445$

Step 2: $445-300=145$. Subtract 3 hundreds.

Check: $145+300=445$. 145 **cookies are left.**