

Adding and Subtracting Within 100: practice solutions, Grade 2 – download the PDF

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

1 Counting blocks



The first group has **2** tens and **3** ones. The second has **1** ten and **4** ones.

Ones: $3 + 4 = 7$. Tens: $2 + 1 = 3$, which is **30**.

$23 + 14 = 37$. There are **37 blocks** in all.

2 Add the tens and the ones



Ones: $1 + 6 = 7$. Tens: $5 + 3 = 8$, which is **80**.

$51 + 36 = 87$.

3 Subtract with no trading



Ones: $8 - 5 = 3$. Tens: $6 - 2 = 4$, which is **40**.

$68 - 25 = 43$.

4 Another subtraction



Ones: $9 - 6 = 3$. Tens: $7 - 4 = 3$, which is 30.

$$79 - 46 = 33.$$

5 Tens and ones puzzle



3 tens 8 ones is 38. 2 tens 1 one is 21.

Ones: $8 + 1 = 9$. Tens: $3 + 2 = 5$.

$38 + 21 = 59$. The answer is 59.

6 Soccer goals



Add: $32 + 45$. Ones: $2 + 5 = 7$. Tens: $3 + 4 = 7$.

$32 + 45 = 77$. The Eagles scored 77 points.

7 Apple stand



Subtract: $89 - 54$. Ones: $9 - 4 = 5$. Tens: $8 - 5 = 3$.

$89 - 54 = 35$. There are 35 apples left.

8 True or false?



a. True. 3 tens plus 4 tens is 7 tens, which is 70.

b. False. Ones: $6 - 4 = 2$. Tens: $5 - 2 = 3$. So $56 - 24 = 32$, not 42.

9 Add with regrouping



Ones: $8 + 7 = 15$. That is **1** ten and **5** ones. Tens: $3 + 2 = 5$, plus **1** new ten gives **6** tens.

$60 + 5 = 65$. So $38 + 27 = 65$.

10 Another regrouping sum



Ones: $9 + 6 = 15$, so write **5** and make a new ten. Tens: $4 + 3 + 1 = 8$.

$49 + 36 = 85$.

11 Trade a ten



71 is **7** tens and **1** one. There are not enough ones, so trade one ten: **6** tens and **11** ones.

Ones: $11 - 8 = 3$. Tens: $6 - 2 = 4$.

$71 - 28 = 43$.

12 Subtracting from a multiple of ten



90 is **9** tens and **0** ones. Trade one ten: **8** tens and **10** ones.

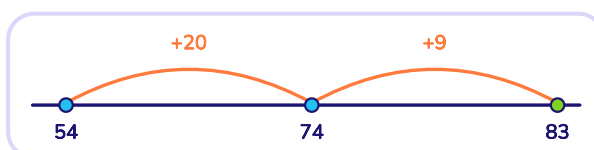
Ones: $10 - 6 = 4$. Tens: $8 - 4 = 4$.

$90 - 46 = 44$.

13 Jumping on a number line



Start at **54**. Jump **20** to **74**. Jump **9** more to **83**.



$54 + 29 = 83$.

14 Find the missing number



Subtract to find the missing number: $82 - 47$. Trade a ten: **82** is **7** tens and **12** ones. Ones: $12 - 7 = 5$. Tens: $7 - 4 = 3$. So $82 - 47 = 35$.

Check: $47 + 35 = 82$. The missing number is **35**.

15 Find Leo's mistake



Ones: $5 + 7 = 12$, which is **1** ten and **2** ones. Leo wrote the **2** but forgot the new ten.

Tens: $4 + 2 + 1 = 7$. The correct answer is $45 + 27 = 72$.

16 Sticker graph



a. Ava has **34** and Cam has **45**. $34 + 45 = 79$. They have **79** stickers.

b. Cam has **45** and Dee has **18**. $45 - 18 = 27$, because $18 + 27 = 45$. Cam has **27** more stickers.

17 Four numbers



Add two at a time: $14 + 23 = 37$. Then $37 + 31 = 68$. Then $68 + 22 = 90$.

Another way: tens $1 + 2 + 3 + 2 = 8$ tens is **80**, ones $4 + 3 + 1 + 2 = 10$. $80 + 10 = 90$.

18 Look for tens



$18 + 27 = 45$. Then $45 + 15 = 60$ (the ones $5 + 5$ make a ten). Then $60 + 34 = 94$.

Check by adding in a different order: $18 + 34 = 52$ and $27 + 15 = 42$. $52 + 42 = 94$.

19 The library cart



First, add the returned books: $63 + 28 = 91$ (ones $3 + 8 = 11$, tens $6 + 2 + 1 = 9$).

Then subtract the books checked out: $91 - 35 = 56$ (trade a ten: 8 tens 11 ones, $11 - 5 = 6$, $8 - 3 = 5$).

There are **56 books** on the cart.

20 Missing start



If you take **38** away and **27** is left, the start was $27 + 38$.

Ones: $7 + 8 = 15$. Tens: $2 + 3 + 1 = 6$. So the start was **65**.

Check: $65 - 38 = 27$. The missing number is **65**.

21 Check Sam's answer



To check, add the answer and the number taken away: $56 + 47 = 103$. That is not **93**, so Sam is wrong.

Subtract correctly: **93** is 8 tens and 13 ones. Ones: $13 - 7 = 6$. Tens: $8 - 4 = 4$. So $93 - 47 = 46$.

Check: $46 + 47 = 93$. The correct answer is **46**.

22 The city bus



First stop: $58 - 19 = 39$ (since $58 - 20 = 38$, then add 1 back).

Next stop: $39 + 26 = 65$ (ones $9 + 6 = 15$, tens $3 + 2 + 1 = 6$).

There are **65 riders** on the bus now.

23

Two mystery numbers

The other number is $71 - 29 = 42$. Check: $29 + 42 = 71$.

The bigger number is **42**, the smaller is **29**. $42 - 29 = 13$. The difference is **13**.

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