

Adding and Subtracting Within 100: practice solutions, Grade 1 – download the PDF

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

1 How many tens and ones?



a. There are 4 rods, so 4 tens. There are 6 dots, so 6 ones.

b. 4 tens and 6 ones is $40 + 6 = 46$.

The number is 46.

2 Adding a few ones



The ones add up to less than 10, so the tens stay the same.

a. $1 + 3 = 4$, so $41 + 3 = 44$.

b. $2 + 6 = 8$, so $52 + 6 = 58$.

c. $3 + 5 = 8$, so $63 + 5 = 68$.

d. $0 + 9 = 9$, so $70 + 9 = 79$.

3**Adding tens**

Add the number of tens.

a. 2 tens + 3 tens = 5 tens, so $20 + 30 = 50$.

b. 4 tens + 4 tens = 8 tens, so $40 + 40 = 80$.

c. 5 tens + 2 tens = 7 tens, so $50 + 20 = 70$.

d. 1 ten + 6 tens = 7 tens, so $10 + 60 = 70$.

4**Taking away tens**

a. 9 tens – 3 tens = 6 tens, so $90 - 30 = 60$.

b. 7 tens – 2 tens = 5 tens, so $70 - 20 = 50$.

c. 6 tens – 2 tens = 4 tens, so $60 - 20 = 40$.

d. 8 tens – 7 tens = 1 ten, so $80 - 70 = 10$.

5**Sticker collection**

We add: $24 + 5$. The ones are $4 + 5 = 9$, and the 2 tens stay.

$$24 + 5 = 29$$

Maya has 29 stickers now.

6**Hop on the number line**

Count 4 ones from 35: 36, 37, 38, 39. You land on 39.

$$35 + 4 = 39$$

7**Ten more, ten less**

10 more adds 1 to the tens digit. 10 less takes 1 away from it. The ones digit stays.

a. $46 + 10 = 56$

b. $73 - 10 = 63$

c. $58 + 10 = 68$

d. $90 - 10 = 80$

8**Make a ten**

a. $38 + 2 = 40$

b. $57 + 3 = 60$

c. $64 + 6 = 70$

d. 5 is 2 and 3. First $38 + 2 = 40$. Then $40 + 3 = 43$. So $38 + 5 = 43$.

9**Regroup the ones**

a. $9 + 4 = 13$ ones, so 1 new ten. $2 + 1 = 3$ tens and 3 ones: $29 + 4 = 33$.

b. $7 + 6 = 13$ ones. $4 + 1 = 5$ tens and 3 ones: $47 + 6 = 53$.

c. $8 + 7 = 15$ ones. $5 + 1 = 6$ tens and 5 ones: $58 + 7 = 65$.

d. $6 + 9 = 15$ ones. $3 + 1 = 4$ tens and 5 ones: $36 + 9 = 45$.

10 Add a multiple of ten



Add the tens and keep the ones.

a. 3 tens + 2 tens = 5 tens, 4 ones: $34 + 20 = 54$.

b. 6 tens + 3 tens = 9 tens, 1 one: $61 + 30 = 91$.

c. 1 ten + 4 tens = 5 tens, 8 ones: $18 + 40 = 58$.

d. 2 tens + 5 tens = 7 tens, 5 ones: $25 + 50 = 75$.

11 Library cart



We add $48 + 6$. The ones are $8 + 6 = 14$, which is 1 ten and 4 ones. The tens are $4 + 1 = 5$.

$$48 + 6 = 54$$

There are 54 books on the cart.

12 Find the mistake



Leo is not right. He added the ones $6 + 7 = 13$ and then wrote 3 and 13 side by side. But 13 ones is 1 ten and 3 ones, so the ten must go with the other tens.

$3 + 1 = 4$ tens and 3 ones, so $36 + 7 = 43$.

13 True or false?



a. True: 4 tens + 3 tens = 7 tens.

b. False: $5 + 4 = 9$, so $25 + 4 = 29$.

c. True: 8 tens – 5 tens = 3 tens.

d. False: 6 tens – 2 tens = 4 tens, so $60 - 20 = 40$.

14 Hop back



Hop back: $90 \rightarrow 80 \rightarrow 70 \rightarrow 60$. Three hops of ten take away 30.

$$90 - 30 = 60$$

15 Two steps



Add the tens first because it is the easiest: $28 + 30 = 58$. Then add the ones: $58 + 4 = 62$.

$$28 + 30 + 4 = 62$$

16 Missing number



- a. Count up from 34 to 39: 5. $34 + 5 = 39$.
- b. The tens go from 5 to 8, so 3 tens: 30. $52 + 30 = 82$.
- c. 47 needs 3 to reach 50. $47 + 3 = 50$.
- d. The tens go from 6 to 9, so 30. $65 + 30 = 95$.

17 Mystery number



61 is 6 tens and 1 one. Adding 6 ones made a new ten, so the ones must have reached 11 before.

$11 - 6 = 5$, so I started with 5 ones. My number is 55.

Check: $55 + 6 = 61$.

18 Explain your strategy



$$46 + 8 = 54.$$

Possible explanation: "I made a ten. 46 needs 4 more to reach 50. I split 8 into 4 and 4.

$$46 + 4 = 50, \text{ then } 50 + 4 = 54."$$

Another good explanation: " $6 + 8 = 14$ ones, which is 1 ten and 4 ones. $4 + 1 = 5$ tens, so 54."

19 Farm stand



First add: $40 + 30 = 70$ pieces of fruit. Then subtract the sold fruit: $70 - 20 = 50$.

There are 50 pieces of fruit left.

20 Add 6 machine



$$24 + 6 = 30. 37 + 6 = 43. 58 + 6 = 64. 69 + 6 = 75.$$

Input	Output
24	30
37	43
58	64
69	75

Each time the ones add up to 10 or more, we regroup and the tens digit goes up by 1.

21 Compare the sums



- a. $45 + 3 = 48$, and $48 < 50$.
- b. $60 - 20 = 40$ and $30 + 10 = 40$, so they are equal: $=$.
- c. $27 + 30 = 57$ and $50 + 9 = 59$, and $57 < 59$.
- d. $80 - 30 = 50$ and $20 + 40 = 60$, and $50 < 60$.



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