

Addition Within 10: practice solutions, Grade 1 – download the PDF

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

1 Marbles in a bag



We put two groups together, so we add: $2 + 4$. Count on from 4: 5, 6.

$2 + 4 = 6$. There are 6 marbles in the bag.

2 Birds on a fence



We start with 5 and add 3 more: $5 + 3$. Count on: 6, 7, 8.

$5 + 3 = 8$. There are 8 birds on the fence.

3 Read the picture



There are 3 orange counters and 4 blue counters. We count all of them: 1, 2, 3, 4, 5, 6, 7.

$3 + 4 = 7$. The sum is 7.

4 Fill the ten frame



There are 6 orange counters and 2 blue counters. Count on from 6: 7, 8.

$6 + 2 = 8$. There are 8 counters in all.

5 Adding zero



When we add 0, the number does not change.

a. $8 + 0 = 8$

b. $0 + 6 = 6$

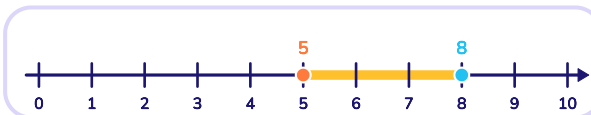
c. $9 + 0 = 9$

d. $0 + 0 = 0$

6 Hop on the number line



From 5 we hop 3 steps: 6, 7, 8.



$5 + 3 = 8$. We land on 8.

7 True or false?



a. True, because $2 + 5 = 7$.

b. False, because $4 + 4 = 8$, not 9.

c. False, because adding 0 does not change 6, so $6 + 0 = 6$.

d. True, because $1 + 8 = 9$.

8**Make ten**

Use the number bonds for 10.

- a. $6 + 4 = 10$, so the missing number is 4.
- b. $3 + 7 = 10$, so the missing number is 7.
- c. $2 + 8 = 10$, so the missing number is 2.
- d. $5 + 5 = 10$, so the missing number is 5.

9**Turn-around facts**

We swap the two numbers. The sum stays the same.

- a. $3 + 6 = 9$ and $6 + 3 = 9$
- b. $2 + 7 = 9$ and $7 + 2 = 9$
- c. $1 + 5 = 6$ and $5 + 1 = 6$

10**Missing number**

Count on from the first number until you reach the sum.

- a. From 5 to 9 we count on 6, 7, 8, 9: that is 4 steps. So $5 + 4 = 9$.
- b. $6 + 2 = 8$, so the missing number is 6.
- c. $3 + 4 = 7$, so the missing number is 4.
- d. $0 + 6 = 6$, so the missing number is 0.

11**Cookies on a plate**

We start with 4 and add 5 more: $4 + 5$. Count on: 5, 6, 7, 8, 9.

$4 + 5 = 9$. There are 9 cookies on the plate.

12 Number bonds



Each pair of parts must make 10.

- a. $3 + 7 = 10$, so the missing part is 7.
- b. $4 + 6 = 10$, so the missing part is 4.

13 Greater than, less than, or equal?



Find each sum first, then compare.

- a. 7 and 8: $3 + 4 < 2 + 6$.
- b. 7 and 7: $5 + 2 = 4 + 3$.
- c. 6 and 5: $6 + 0 > 1 + 4$.
- d. 4 and 3: $2 + 2 > 3 + 0$.

14 Complete the table



We ask: what do we add to the first part to get 10?

First part	1	4	7	10
Second part	9	6	3	0

$1 + 9 = 10$, $4 + 6 = 10$, $7 + 3 = 10$, $10 + 0 = 10$.

15 Three numbers



- a. $2 + 3 = 5$, then $5 + 4 = 9$. So $2 + 3 + 4 = 9$.
- b. $1 + 4 = 5$, then $5 + 3 = 8$. So $1 + 4 + 3 = 8$.
- c. $5 + 0 = 5$, then $5 + 4 = 9$. So $5 + 0 + 4 = 9$.
- d. $2 + 2 = 4$, then $4 + 2 = 6$. So $2 + 2 + 2 = 6$.

16 Find the mistake



Sam: Adding 0 does not change the number. 6 plus none is still 6. The correct sentence is $6 + 0 = 6$.

Lena: If we start at 4 and hop 3 steps we count 5, 6, 7. We land on 7, not 8. The correct sentence is $4 + 3 = 7$.

17 Pairs that make ten



Use the number bonds for 10.

- $3 + 7 = 10$
- $4 + 6 = 10$
- $2 + 8 = 10$

The card 5 is left. It needs another 5 to make 10, and there is only one 5. **The card with no partner is 5.**

18 Crayon box



We add the three groups: $3 + 2 + 4$. First, $3 + 2 = 5$. Then, $5 + 4 = 9$.

$3 + 2 + 4 = 9$. There are 9 crayons in the box.

19 Same sum, other order



- a. $2 + 7$ is the same as $7 + 2$. The missing number is 7.
- b. $4 + 5$ is the same as $5 + 4$. The missing number is 4.
- c. $8 + 1$ is the same as $1 + 8$. The missing number is 8.

20 All the ways to make 8



We start with 0 and keep adding the number needed to reach 8.

$0 + 8 = 8$, $1 + 7 = 8$, $2 + 6 = 8$, $3 + 5 = 8$, $4 + 4 = 8$, $5 + 3 = 8$, $6 + 2 = 8$, $7 + 1 = 8$,
 $8 + 0 = 8$.

There are **9 sentences**. Notice that most come in turn-around pairs, like $2 + 6$ and $6 + 2$.

21 Zyro's garden story



$4 + 5 = 9$. Zyro has 9 plants in all.

The turn-around sentence is $5 + 4 = 9$.

The sums match because the order of the two numbers does not matter when we add. We still have the same total of plants.



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