

Addition Within 10: practice solutions, Kindergarten – download the PDF

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

1 Count and add



There are 2 orange counters and 3 blue counters. Put them together and count: 1, 2, 3, 4, 5.

$$2 + 3 = 5$$

There are **5** counters in all.

2 Fingers



We put the fingers together: $4 + 1 = 5$.

Sam shows **5** fingers.

3 Doubles



a. $1 + 1 = 2$

b. $2 + 2 = 4$

c. $3 + 3 = 6$

Adding the same number twice is called a double.

4 Birds on a branch



This is an adding-to story. We start with 4 and 2 more come.

$$4 + 2 = 6$$

There are 6 birds on the fence.

5 Hop on the number line



From 3, hop: 4, 5, 6. You land on 6.

$$3 + 3 = 6$$

6 Ten frame story



The first row has 5 orange counters. The second row has 2 blue counters.

$$5 + 2 = 7$$

The sum is 7.

7 Adding zero



a. $6 + 0 = 6$

b. $0 + 4 = 4$

When you add 0, the number does not change, because you add nothing.

8 How many empty spaces?



There are 6 orange counters and 3 blue counters: $6 + 3 = 9$.

The frame has 10 spaces and 9 are full. So 1 space is empty.

9 True or false?



- a. True. Hopping 4 from 3 lands on 7.
- b. False. $5 + 2 = 7$, not 8.
- c. True. Adding 1 gives the next number after 6, which is 7.

10 Switch the order



$2 + 6 = 8$ and $6 + 2 = 8$.

The sums are the same. The order of the addends does not change the sum.

11 Cookies on a plate



We start with 5 and add 4 more: $5 + 4 = 9$.

There are 9 cookies on the plate.

12 Draw the story



Draw 3 circles, then 4 more circles, and count them all.


$$\text{3 orange circles} + \text{4 blue circles} = 7$$

$3 + 4 = 7$. Maya has 7 stickers.

13 Ways to make 7



Here are all the pairs, starting from 0: $0 + 7$, $1 + 6$, $2 + 5$, $3 + 4$. Switching the order gives more pairs, such as $6 + 1$.

Any three of these are correct, and each one has the sum 7.

14 Which sum is bigger?



$4 + 3 = 7$ and $2 + 4 = 6$.

Since 7 is bigger than 6, $4 + 3$ is bigger.

15 Make 10



The frame has 4 empty spaces. Filling them with 4 blue counters makes 10.

$6 + 4 = 10$. You need 4 blue counters.

16 Three teams



First add two numbers: $2 + 3 = 5$. Then add the last team: $5 + 4 = 9$.

$2 + 3 + 4 = 9$. The teams score 9 points in all.

17 Act it out



Put 5 counters in a box that is the bus. Then put 3 more counters in the box. Count all the counters: 8.

$5 + 3 = 8$. There are 8 children on the bus.

18 Find the mistake



Start at 4 on a number line and hop 5 times: 5, 6, 7, 8, 9. You land on 9.

$4 + 5 = 9$. Leo is **not right**. He stopped one hop too early.

19 Match the story



The plus sign means joining, so we need a story where ducks come.

The answer is **(a)**. In story (b) the ducks leave, so the group gets smaller.

20 Write your own story



Example: *Noah has 3 toy trucks. He gets 6 more toy trucks for his birthday. How many trucks does he have?*

$3 + 6 = 9$. Noah has **9** trucks. (Many other stories are correct.)

21 Mystery numbers



Try pairs that make 9: $1 + 8$, $2 + 7$, $3 + 6$, $4 + 5$.

Only $4 + 5$ has numbers that differ by 1. The numbers are **4 and 5**.

22 Two hops



From 1, hop 2: you land on 3. Then hop 3 more: 4, 5, 6.

$1 + 2 + 3 = 6$. You land on **6**.



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