

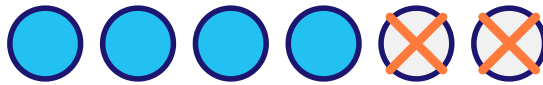
Subtraction Within 10: practice solutions, Kindergarten – download the PDF

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

1 Cross out the ladybugs



Cross out 2 of the 6 ladybugs. Count the ladybugs with no cross: 4 are left.



The equation is $6 - 2 = 4$. 4 ladybugs are left.

2 Apples in the basket



Start with 5 and take away 1. Taking away 1 gives the number just before 5, which is 4.

$5 - 1 = 4$. 4 apples are left.

3 Read the equation



a) “Seven **minus** two **equals** five.” You start with 7, take away 2, and 5 are left.

b) “Four **minus** one **equals** three.” You start with 4, take away 1, and 3 are left.

4 Take away nothing, take away all



- a) Taking away nothing changes nothing: $3 - 0 = 3$.
- b) Taking away all 3 leaves nothing: $3 - 3 = 0$.
- c) $8 - 0 = 8$.
- d) $8 - 8 = 0$.

5 Finish the facts



- a) $4 - 2 = 2$.
- b) $5 - 3 = 2$.
- c) $3 - 1 = 2$.
- d) $2 - 1 = 1$.

You can check each one by drawing the starting group and crossing out the number you take away.

6 Fish in the pond



Cross out 3 of the 8 counters. The counters with no cross are the fish that stay.



$8 - 3 = 5$. 5 fish stay in the pond.

7 Match the story



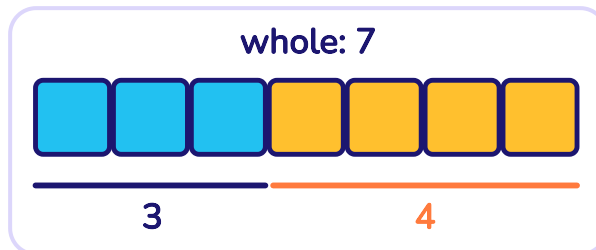
“Gives away” means some stickers go away, so we subtract. The matching equation is **B)** $6 - 2 = 4$. Mia has 4 stickers left.

Equation A uses a plus sign, which would make the group bigger.

8

Taking 7 apart

The orange cars are the part we do not know. Whole minus the known part gives the other part.



$7 - 3 = 4$. 4 cars are orange.

9

Blocks of two colors

The whole is 10 and one part is 6. Subtract the known part from the whole.

$10 - 6 = 4$. There are 4 yellow blocks.

Check: 6 green and 4 yellow make 10 blocks.

10

Cupcakes at the party

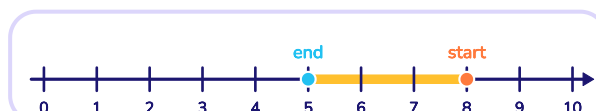
Draw 9 circles and cross out 5. Four circles have no cross.

$9 - 5 = 4$. 4 cupcakes are left on the tray.

11

Hop back on the number line

Hop back one step at a time: 7, 6, 5. You land on 5.



$8 - 3 = 5$.

12 True or false?



- a) False. Six minus two is 4, so $6 - 2 = 4$.
- b) True. Taking away all 5 leaves nothing.
- c) False. Taking away nothing leaves 4, so $4 - 0 = 4$.

13 Fact fluency challenge



- a) $5 - 2 = 3$ b) $4 - 3 = 1$ c) $3 - 3 = 0$ d) $5 - 4 = 1$ e) $4 - 2 = 2$ f) $2 - 0 = 2$

Trick: $5 - 2 = 3$ and $5 - 3 = 2$ use the same two parts of 5.

14 Find Leo's mistake



Leo added 6 and 4 instead of taking away. The minus sign means we take away, so the answer must be smaller than 6.

The correct equation is $6 - 4 = 2$.

15 All the subtractions from 5



Take away 1, 2, 3, and 4 from 5 in turn.

$$5 - 1 = 4, \quad 5 - 2 = 3, \quad 5 - 3 = 2, \quad 5 - 4 = 1.$$

Notice the pattern: when the number you take away goes up by 1, the answer goes down by 1.

16 Birds leave in two steps



First step: $10 - 3 = 7$, so 7 birds are on the fence.

Second step: $7 - 2 = 5$.

5 birds are still on the fence.

17 How many were lost?



Hop back from 9 until you reach 6: 8, 7, 6. That is 3 hops, so she lost 3 crayons.

$9 - 3 = 6$. Ana lost 3 crayons.

Check: 9 minus 3 leaves 6, which matches the story.

18 Which leaves more?



Story A: $8 - 3 = 5$ balloons left.

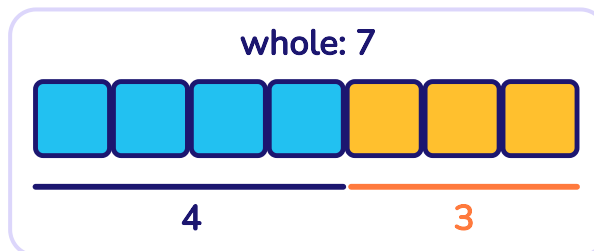
Story B: $8 - 5 = 3$ balloons left.

Since 5 is more than 3, **Story A leaves more balloons**. The more you take away, the fewer are left.

19 Two facts from one picture



Take away one part to find the other.



$7 - 4 = 3$ and $7 - 3 = 4$.

20 Write your own story



Many stories work. Here is one: "There are 10 frogs on a lily pad. Six frogs jump into the water. Four frogs stay on the lily pad."

A good story starts with 10, something goes away (6), and 4 are left.

21

Make 5 left

If the answer is 5, the first number is 5 more than the number you take away.

$10 - 5 = 5$, $9 - 4 = 5$, $8 - 3 = 5$, $7 - 2 = 5$, $6 - 1 = 5$, $5 - 0 = 5$.

Both numbers go down by 1 each time, and the answer stays 5.

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