

Counting Objects and Cardinality: practice solutions, Kindergarten – download the PDF

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

1 Count the stars



Touch each star once and say: one, two, three, four, five, six, seven. The last number is seven.

Answer: there are 7 stars.

2 Touch and say



The last number word she said is four. The last number tells how many.

Answer: Mia has 4 crayons.

3 Count and write



Count the top row: one to five. Keep going in the second row: six, seven, eight, nine. The last number is nine.

Answer: 9.

4**The empty bowl**

When there are none, we say zero. The numeral for zero is 0.

Answer: 0.

5**What comes next?**

Each number is one more than the one before it.

- a. six
- b. nine
- c. three

Answer: six, nine, three.

6**Numbers and words**

- a. two is **2**
- b. five is **5**
- c. eight is **8**
- d. ten is **10**

Answer: 2, 5, 8, 10.

7**Which plate has five?**

Plate A has four counters, plate B has five, and plate C has six. Counting plate B: one, two, three, four, five.

Answer: plate B.

8**A circle of flowers**

Start at the ring and go around: one, two, three, four, five, six, seven, eight, nine. Stop when you are back at the ring.

Answer: 9 flowers.

9**Count the rows**

Each row has three squares. There are four rows. Count row by row without starting over: one, two, three; four, five, six; seven, eight, nine; ten, eleven, twelve.

Answer: 3 squares in each row and 12 squares in all.

10**Count out eight**

Ben says one, two, three, four, five, six, seven, eight and then he stops.

Answer: he says eight, and the cup holds 8 counters.

11**Find the mistake**

Kai skipped the number word four. He said six words, because six apples got touched, but the last word he said was seven. The correct count is one, two, three, four, five, six.

Answer: no. There are 6 apples, because Kai skipped four.

12**Match the groups**

Group A has two counters, group B has six, and group C has three.

Answer: A matches 2, B matches 6, C matches 3.

13 Counting past ten



Count the first row: one to ten. Keep going in the second row: eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen.

Answer: seventeen, so there are 17 counters.

14 Same number, new shape



Pushing the blocks together does not add any and does not take any away. Counting the pile once more still gives one, two, three, four, five, six.

Answer: 6 blocks.

15 Next number word



Each number word names one more than the word before it.

- a. eleven
- b. fourteen
- c. nineteen

Answer: eleven, fourteen, nineteen.

16 Eighteen stars



There are three rows of six stars. Count row by row: one to six, seven to twelve, thirteen to eighteen. The last number is eighteen. To reach twenty, count on: nineteen, twenty. That is two more numbers.

Answer: 18 stars, and 2 more are needed to make twenty.

17 Twelve buttons



The number Ms. Ortiz wanted is twelve, and she said twelve as she placed the last button. The last number you say tells how many, so the jar has twelve. Zoe would need one more button to say thirteen.

Answer: Ms. Ortiz is right. The jar holds 12 buttons.

18 Keep going from five



He does not start over. The top row ends at five, so the first counter in the second row is six. There are five counters in the second row: six, seven, eight, nine, ten.

Answer: six for the first one, and ten for the last, so there are 10 counters.

19 Which group is different?



Plate A has five stars, plate B has five circles, plate C has four squares, and plate D has five counters. The shapes are different, but only the number matters.

Answer: plate C, because it has 4 and the others have 5.

20 Bead loop mistake



A loop has no end, so Tom did not know where to stop and counted one bead twice. To fix it, he should mark his first bead with a sticker, count around, and stop when he gets back to it.

Answer: he counted a bead twice. The loop has 10 beads.

21 True or false?



It is false. If you count every car once, you always end at the same number, no matter which car you start with or which order you use.

Answer: false, the total stays the same.

22 Number riddles



- a. seven, 7
- b. zero, 0
- c. nine, 9
- d. fifteen, 15

Answer: seven, zero, nine, fifteen.



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