

Second Grade Test Operations & Algebraic Thinking

Name _____ Teacher _____ Date _____

2.OA.A.1 Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions.

1. Andy buys 4 children's and 3 adult tickets to the movie. How many tickets did he buy altogether?

- a. 6 b. 7 c. 8

2. Rachel caught 48 fireflies on Monday and 24 fireflies on Tuesday. How many fireflies did she catch on the two days?

- a. 72 b. 62 c. 64

3. There are 53 children in the park. If 17 children leave, how many children are in the park now?

- a. 60 b. 36 c. 40

4. Curly the clown has 35 balloons and Doc the clown has 47 balloons. How many more balloons does Doc have than Curly?

- a. 12 b. 16 c. 14

5. Anita saw 82 wildflowers altogether. 23 were purple and 52 were orange. How many wildflowers were neither purple nor orange?

- a. 6 b. 5 c. 7

6. Jamie put up 32 tents in a week. She put up 12 on Monday and 14 on Tuesday. How many tents did she put up the rest of the week

- a. 6 b. 5 c. 7

2.OA.B.2 Fluently add and subtract within 20 using mental strategies.

Add.

7. $6 + 8 = \underline{\quad}$ a. 14 b. 15

8. $9 + 4 = \underline{\quad}$ a. 13 b. 12

9. $5 + 7 = \underline{\quad}$ a. 12 b. 13

Subtract.

10. $12 - 4 = \underline{\quad}$ a. 6 b. 8

11. $14 - 7 = \underline{\quad}$ a. 7 b. 6

12. $17 - 9 = \underline{\quad}$ a. 7 b. 8

2.OA.C.3 Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends.

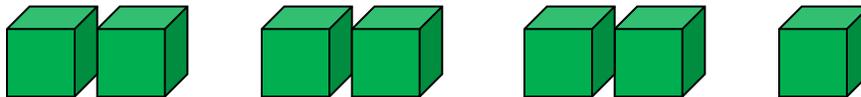
13. The number 6 is:



a. odd

b. even

14. The number 7 is:



a. odd

b. even

15. Which of the following is an equation that expresses an even number as a sum of two equal addends?

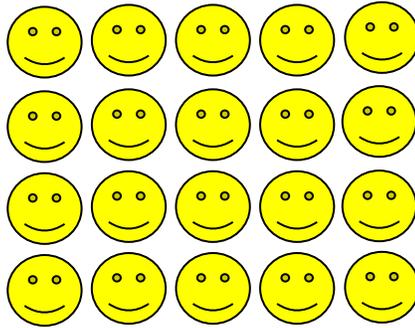
a. $8 = 4 + 4$

b. $12 = 5 + 7$

c. $17 = 8 + 9$

2.OA.C.4 Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.

16. Which equation expresses the total number in this rectangular array?



a. $4 + 4 + 4 + 4 = x$

b. $5 + 5 + 5 + 5 = x$

**Answer Key for Second Grade Test
Operations & Algebraic Thinking**

Standard	Answer
2.OA.1	1. b
	2. a
	3. b
	4. a
	5. c
	6. a
2.OA.2	7. a
	8. a
	9. a
	10. b
	11. a
2.OA.3	12. b
	13. b
	14. a
2.OA.4	15. a
	16. b