

**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.

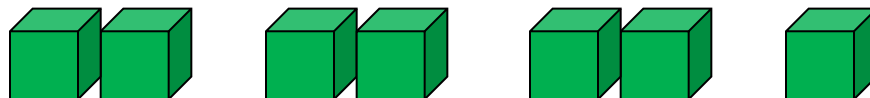
**13. The number 6 is:**



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?**

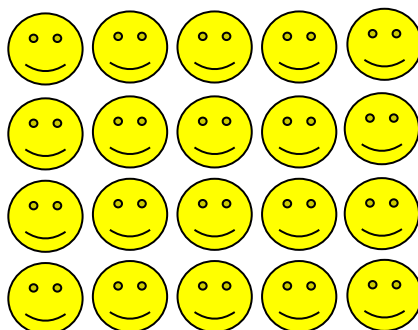
**a.**  $8 = 4 + 4$

**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**

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