

## Grade 2 Unit 8

### Lesson 10

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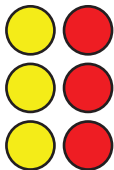
## Unit 8 Lesson 10: Write Expressions and Equations to Represent Arrays

### WU True or False: Expressions that Represent Arrays (Warm up)

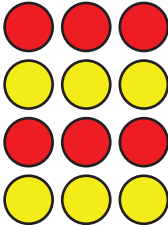
#### Student Task Statement

Decide if each statement is true or false. Be prepared to explain your reasoning.

- $2 + 2 + 2 = 3 + 3$

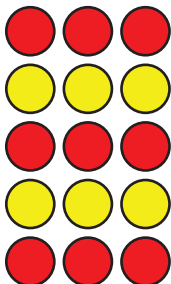


- $4 + 4 + 4 = 3 + 3 + 3 + 3$



- $5 + 5 + 5 = 3 + 3 + 3$

#### Activity Synthesis



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## 1 Build Arrays and Write Equations

### Student Task Statement

- Use 20 counters to make an array with 4 rows.
  - How many columns does your array have?
  - Fill in the blanks to create equations with equal addends that represent the array.

$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

- Use 15 counters to make an array with 3 columns.
  - How many rows does your array have?
  - Fill in the blanks to create equations with equal addends that represent the array.

$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

- Choose an even number of counters between 6 and 24. Make an array.
  - How many rows does your array have?
  - How many columns does your array have?
  - Write equal addends equations that represent the array.

## 2 Arrange Veggies to Make Arrays

### Student Task Statement

- Make an array that shows how to plant 9 potatoes. Draw it.  
Write an equation to represent your array.
- Make an array that shows how to plant 16 carrot seeds. Draw it.  
Write an equation to represent your array.
- Make an array that shows how to plant 15 potatoes. Draw it.  
Write an equation to represent your array.
- Make an array that shows how to plant 12 carrot seeds. Draw it.  
Write an equation to represent your array.

### Images for Activity Synthesis



