## Unit 8 Lesson 9: A Sum of Equal Addends

### WU Estimation Exploration: How Many Waffles? (Warm up)

#### Images for Launch



#### Student Task Statement

How many waffles are on the tray?





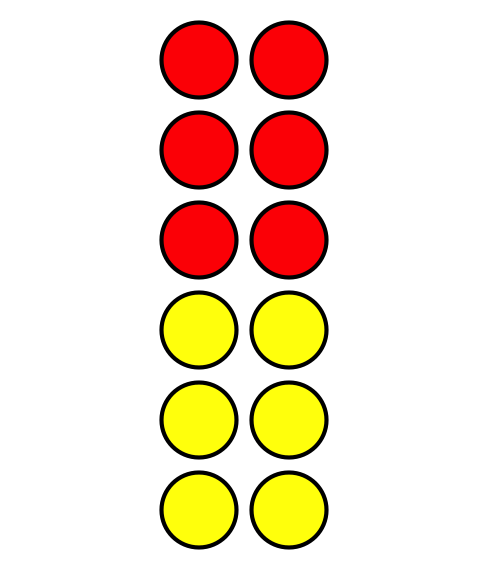
Record an estimate that is:

| too low | about right | too high |
| --- | --- | --- |
|  |  |  |

### 1 Sums of Rows and Sums of Columns

#### Student Task Statement

Mai and Diego represented the same array with different expressions.



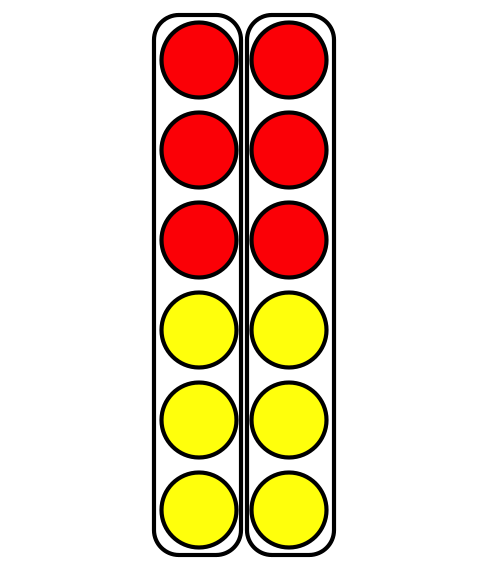
Diego’s expression

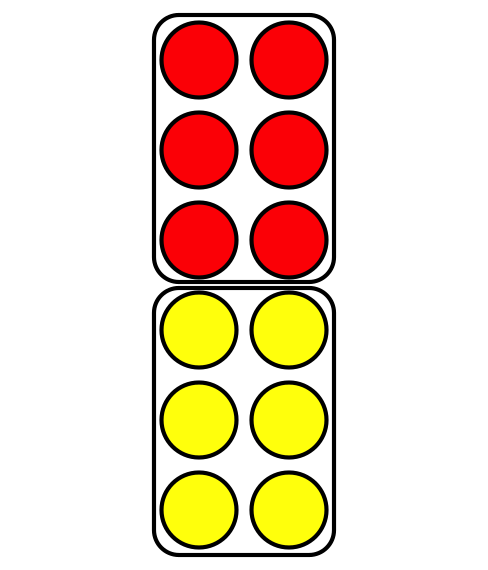
Mai’s expression

Who do you agree with?

Show your thinking using diagrams, symbols, or other representations.

#### Activity Synthesis





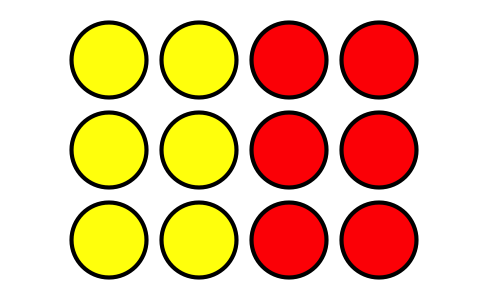
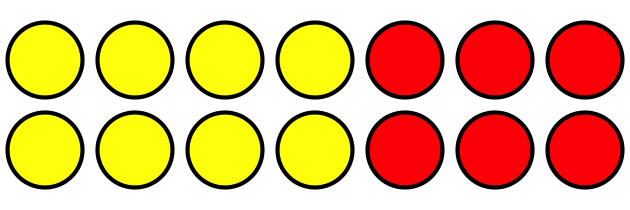
### 2 Card Sort: Arrays and Expressions

#### Student Task Statement

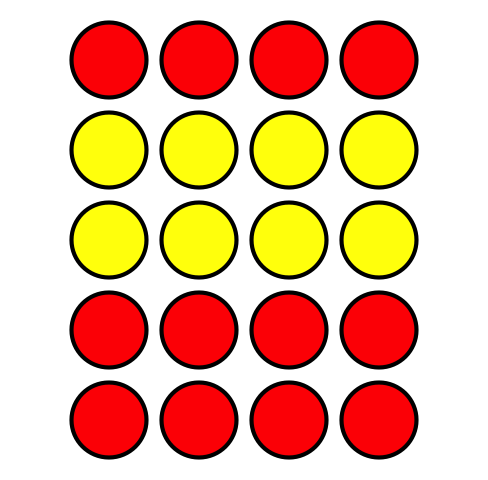
Your teacher will give you a set of cards that show arrays, expressions and a total number. Find the cards that match.

### 3 Add It All Up

#### Student Task Statement

* 1. How many counters are there in all?
  + 
  1. Explain how you found the total number of counters.
  2. Circle **2** expressions that represent the array.
  3. How many counters are there in all?
  + 
  1. Explain how you found the total number of counters.
  2. Circle **2** expressions that represent the array.

#### Images for Activity Synthesis





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