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Unit 8, Lesson 9

# A Sum of Equal Addends

* Let’s match expressions with arrays.

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## Warm-up Estimation Exploration: How Many Waffles?

How many waffles are on the tray?



Record an estimate that is:

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

How many waffles are on the tray?



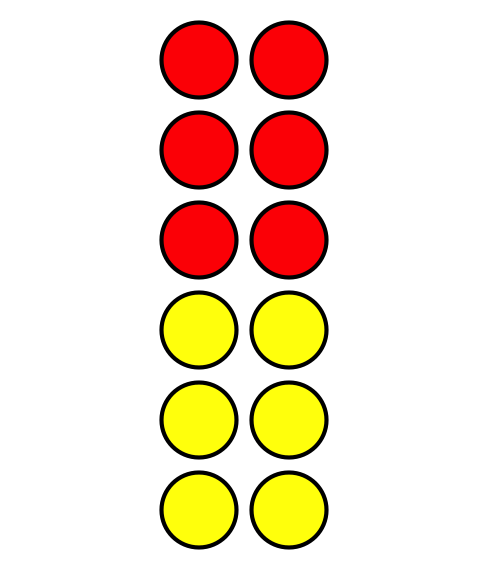
Record an estimate that is:

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

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## Activity 1 Sums of Rows and Sums of Columns

Mai and Diego represent this array. They use different expressions.



Diego’s expression

Mai’s expression

Do you agree with Diego or Mai?

Show your thinking using drawings, numbers, or words.

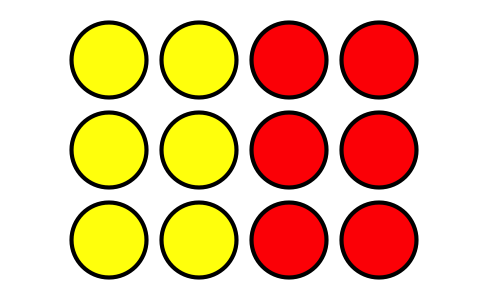
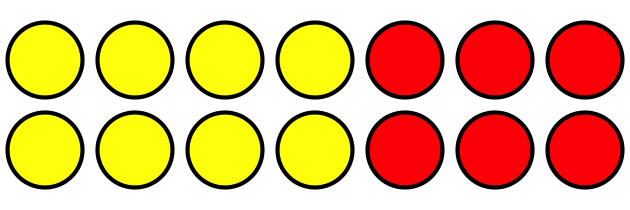
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## Activity 2Card Sort: Arrays and Expressions

Your teacher will give you a set of cards. Match each array card with 2 expression cards and 1 number card. Be ready to explain your reasoning.

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## Activity 3 Add It All Up

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