

# Lesson 9: A Sum of Equal Addends

- Let's match expressions with arrays.

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

How many waffles are on the tray?

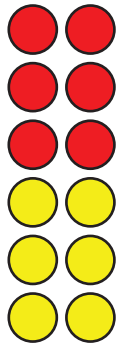


Record an estimate that is:

too low	about right	too high

## 9.1: Sums of Rows and Sums of Columns

Mai and Diego represented the same array with different expressions.



Diego's expression

$$2 + 2 + 2 + 2 + 2 + 2$$

Mai's expression

$$6 + 6$$

Who do you agree with?

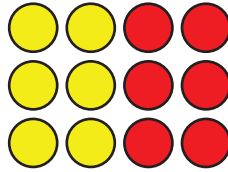
Show your thinking using diagrams, symbols, or other representations.

## 9.2: Card Sort: Arrays and Expressions

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

## 9.3: Add It All Up

1. a. How many counters are there in all?



- b. Explain how you found the total number of counters.

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- c. Circle 2 expressions that represent the array.

$$3 + 3 + 3 + 3$$

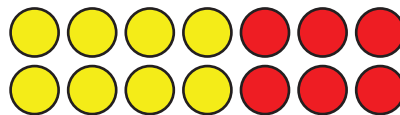
$$3 + 3 + 3$$

$$4 + 3$$

$$4 + 4 + 4$$

$$4 + 4 + 4 + 4$$

2. a. How many counters are there in all?



b. Explain how you found the total number of counters.

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c. Circle 2 expressions that represent the array.

$$2 + 2 + 2 + 2 + 2 + 2 + 2$$

$$6 + 6$$

$$7 + 7$$

$$2 + 2 + 2 + 2 + 2$$