



# 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 |
|---------|-------------|----------|
|         |             |          |

How many waffles are on the tray?



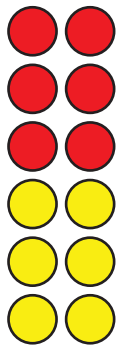
Record an estimate that is:

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

## Activity 1

### Sums of Rows and Sums of Columns

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



Diego's expression

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

Mai's expression

$$6 + 6$$

Do you agree with Diego or Mai?

Show your thinking using drawings, numbers, or words.

## Activity 2

### Card Sort: Arrays and Expressions

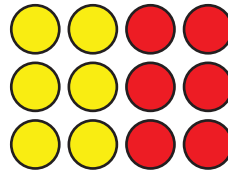
Your teacher will give you a set of cards. Match each array card with 2 expression cards and 1 number card. Be ready to explain your reasoning.



## Activity 3

### Add It All Up

1. a. How many counters are in the array?



- b. Explain how you found the total.

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- c. Circle **2** expressions that represent the array.

$$3 + 3 + 3 + 3$$

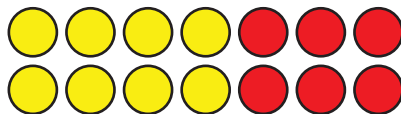
$$3 + 3 + 3$$

$$4 + 3$$

$$4 + 4 + 4$$

$$4 + 4 + 4 + 4$$

2. a. How many counters are in the array?



- b. Explain how you found the total.

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- c. Circle **2** expressions that represent the array.

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

$$6 + 6$$

$$7 + 7$$

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