Illustrative Mathematics

Grade 2 Unit 8 Lesson 9 CC BY 2021 Illustrative Mathematics®

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

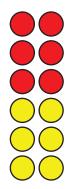
Mai and Diego represented the same array with different expressions.

Diego's expression

2 + 2 + 2 + 2 + 2 + 2 + 2

Mai's expression

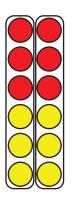
6 + 6

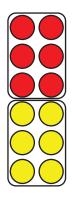


Who do you agree with?

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

Activity Synthesis





2 Card Sort: Arrays and Expressions

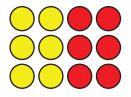
Student Task Statement

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

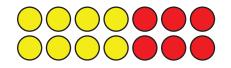
3 Add It All Up

Student Task Statement

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



- b. Explain how you found the total number of counters.
- 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.
- c. Circle **2** expressions that represent the array.

2 + 2 + 2 + 2 + 2 + 2 + 2 + 26 + 67 + 72 + 2 + 2 + 2 + 2

Images for Activity Synthesis

