

Pg 18 # 1-2

Counter Model

Essential Question: Can you make three with an even number of counters? Explain your thinking.

Do problem 3 on page 18 **with your partner.**

- What is the fewest amount of counters needed to create 4?
- How many counters create a zero pair?
- What is an even number plus an even number?

" My partner, _____, and I created 4 using _____ positive counters and _____ negative counters. "

Even & Odds

Even + Even is always _____.

Even + Odd is always _____.

Odd + Odd is always _____.

Zero Pair

Zero Pair: uses the additive inverse property to find pairs whose sum is zero.

Pg 19 together as a class

Complete 1 - 10 on pg 20 **with a partner**

" My partner, _____ and I, created _____
using _____ positive counters and _____ negative
counters. "

Counter Rules

Zero pairs are always _____, therefore, to make an odd number you always need a _____ number of tiles and to make an even number you always need a _____ number of tiles.

Remember: $e + e = e$
 $o + e = o$

The diagram illustrates the counter rule for adding two e tiles. It shows the equation $e + e = e$ in blue. A dashed blue arrow labeled "zero pair" points from the first e to the second e. Another dashed blue arrow labeled "Result" points from the second e to the final e on the right side of the equation. Below this, the equation $o + e = o$ is also shown in blue.

Summary:

You can/cannot make the number three using an even number of counters, because a zero pair is always _____, and an even plus an _____ makes an odd (like 3).