Grade 2  
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Unit 8, Lesson 4

# Decompose Even and Odd Numbers

* Let’s represent even and odd numbers.

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## Warm-up Number Talk: Equal Addends

Find the value of each expression mentally.

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## Activity 1 Share in Different Ways

1. Kiran has 12 stickers. He wants to give them all to 2 friends. Show different ways Kiran can share the stickers.
   1. Can both friends get the same number of stickers?
   2. Can both friends get an even number of stickers?
   3. Can both friends get an odd number of stickers?
   4. Can 1 friend get an even number of stickers and the other get an odd number?
2. Lin has 14 stickers. She wants to give them all to 2 friends.
   1. Can both friends get the same number of stickers?
   2. Can both friends get an even number of stickers?
   3. Can both friends get an odd number of stickers?
   4. Can 1 friend get an even number of stickers and the other get an odd number?
3. Noah has 15 stickers. He wants to give them all to 2 friends.
   1. Can both friends get the same number of stickers?
   2. Can both friends get an even number of stickers?
   3. Can both friends get an odd number of stickers?
   4. Can 1 friend get an even number of stickers and the other get an odd number?

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## Activity 2 Represent Numbers with 2 Addends

1. Pick a number between 0 and 20.
2. Tell if your number is even or odd.
3. Complete the equation. Show your number as the sum of 2 equal addends. If you can’t, use 2 addends that are as close as possible.
4. Repeat for all the numbers 0 to 20.

even

odd

## Section A Summary

We learned that groups of objects have either an even number or an odd number of items.

* An **even** number of objects can be split into 2 equal-size groups or into groups of 2 with no objects left over.
* An **odd** number of objects always has 1 object left over when you try to make 2 equal-size groups or groups of 2.

We also represented even numbers as equations with 2 equal addends.





Odd

Even