

1st Grade Math: Making Number Bonds

In this lesson, we will learn about **number bonds**, which help us understand how numbers can be broken apart and put together in different ways.

Key Concepts

1. What is a Number Bond?

- A **number bond** shows how a number can be split into two or more smaller parts.
- It is a way to see how numbers are related by adding or subtracting.

2. Parts and Whole

- Every number bond has:
 - A **whole** (the big number).
 - Two or more **parts** (smaller numbers that add up to the whole).

For example, for the number 5:

- The whole is **5**.
- The parts can be **2** and **3** because $2 + 3 = 5$.

How to Make a Number Bond

1. **Start with the Whole**
 - Choose a number to be the **whole**.
 - Example: The whole is **6**.
2. **Break it into Parts**
 - Think of two smaller numbers that add up to the whole.
 - Example: **6** can be broken into **4** and **2** because $4 + 2 = 6$.
3. **Write the Number Bond**
 - Draw a circle with the **whole** number inside.
 - Draw two smaller circles for the **parts** and connect them to the whole.

Example for **6**:

$$\begin{array}{c} 6 \\ / \quad \backslash \\ 4 \quad 2 \end{array}$$

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Example of Number Bonds

Example 1: Number Bond for 7

- **Whole:** 7
- **Parts:** 4 and 3, because $4 + 3 = 7$

```
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  7
 / \
4   3
```

Example 2: Number Bond for 10

- **Whole:** 10
- **Parts:** 6 and 4, because $6 + 4 = 10$

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 10
 /  \
6     4
```

Practice with Number Bonds

1. Number bond for **8**:
 - Whole: **8**
 - Parts: **5** and **3**, because $5 + 3 = 8$
2. Number bond for **5**:
 - Whole: **5**
 - Parts: **2** and **3**, because $2 + 3 = 5$

Activity: Make Your Own Number Bonds

1. Break the number **9** into parts. Write your number bond:
 - Example: **5** and **4** (because $5 + 4 = 9$)
2. Break the number **6** into parts. Write your number bond:
 - Example: **3** and **3** (because $3 + 3 = 6$)

Why Are Number Bonds Important?

- Number bonds help us see relationships between numbers.
- They make it easier to understand **addition** and **subtraction**.
- They help us solve math problems quickly by breaking numbers into smaller parts.

Summary

- **Number bonds** show how a number can be split into parts.
- A **whole** number can be broken into two or more **parts** that add up to it.
- Practicing number bonds helps you get better at adding and subtracting!

Keep practicing, and soon you'll be a number bond expert!