

2nd Grade Math: Adding On and Taking Away Sets

What Does Adding On and Taking Away Mean?

Adding on and **taking away** are fundamental concepts in addition and subtraction. They help students understand how to combine or remove items in a set, which builds their mathematical skills and number sense.

Adding On (Addition)

Adding on involves combining two or more sets to find the total. This can be visualized by using objects or drawings.

Example of Adding On

Problem: You have 4 apples, and you pick 3 more. How many apples do you have now?

1. **Identify the Sets:**

- Set A: 4 apples
- Set B: 3 apples (picked)

2. **Add the Sets Together:**

$$4 + 3 = 7$$

3. **Total:** You have 7 apples.

Visual Representation

You can use a number line or draw pictures of the apples to show the addition visually.

Taking Away (Subtraction)

Taking away involves removing items from a set to find out how many are left. This concept helps students understand how to subtract.

Example of Taking Away

Problem: You have 10 cookies, and you eat 2. How many cookies do you have left?

1. Identify the Sets:

- Whole Set: 10 cookies
- Part Taken Away: 2 cookies (eaten)

2. Subtract the Part from the Whole:

$$10 - 2 = 8$$

3. Remaining Set: You have 8 cookies left.

Visual Representation

You can use counters or draw pictures to show the cookies being taken away.

Practice Problems

1. Adding On:

- You have 5 balloons, and your friend gives you 4 more. How many balloons do you have now? (Answer: ____)
- You collect 6 stickers, and then you find 3 more. How many stickers do you have in total? (Answer: ____)

2. Taking Away:

- You start with 12 crayons, and you give away 5. How many crayons do you have left? (Answer: ____)
- You have 15 marbles, and you lose 7. How many marbles do you have now? (Answer: ____)

3. Word Problems:

- You have 8 toy cars. Your brother gives you 3 more. How many toy cars do you have now?
- There are 20 apples in a basket. If you take away 4, how many apples are left in the basket?

Conclusion

Understanding how to add on and take away sets is crucial for 2nd graders as they develop their addition and subtraction skills. Through hands-on activities and engaging problems, students will build confidence in their ability to manipulate numbers and solve real-world problems.