

## **A Boy Named Carl**

Once upon a time there was a nine-year-old boy named Carl. Carl loved math! His teacher struggled to find exciting math challenges for Carl. One day his teacher said, "Carl, add up all the counting numbers from 1 to 100 and tell me what the sum is." Carl surprised the teacher by giving the correct answer after only a few minutes of thought.

Can you find a way to get this sum quickly and easily?

Can you find more than one way to do it?

*Some historians believe that this is a true story about Carl Friedrich Gauss, who lived from 1777 to 1855 and made important contributions to algebra, astronomy, geodesy, geometry, magnetism, statistics, and other fields.*

## **The Crazy Allowance**

On New Year's day Parent says to Child, "This year, let's try a new allowance method. Today, the first day of the year, I will give you one cent. Tomorrow, the second day of the year, I will give you two cents. The third day, I will give you three cents, and so on, for every day of the year." The year that Parent and Child did this was not a leap year, so the last day of the year Parent gave Child \$3.65.

What was the total amount of money that Child received from Parent over the entire year?

How is this problem like the problem that Carl solved? How is it different?