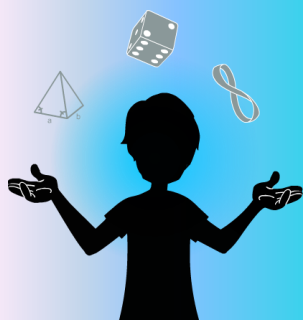


PUZZLING CARTOON

- SCHOOL OF MAGIC -



AMAZINGMATHS

Materials:

- Video of the puzzle
- Pen and paper

The Puzzle

Ronny, Harmony and Henry go to the School of Magic and they want to know how many books are in their school library. Each of them counted the number of books in the library. Henry counted a total of 2010 books, Ronny counted 2022 books, and Harmony counted 1988 books.

Unfortunately, Mrs. Dolorie Ombragie tells them that none of them got the right answer! The person who was the closest to the correct number of books miscounted 7 books, the next person miscounted 15 books, and the person who was the furthest away from the correct amount miscounted 19 books.



Was is the exact number of books that are in the School of Magic's library?



PUZZLE SOLUTION

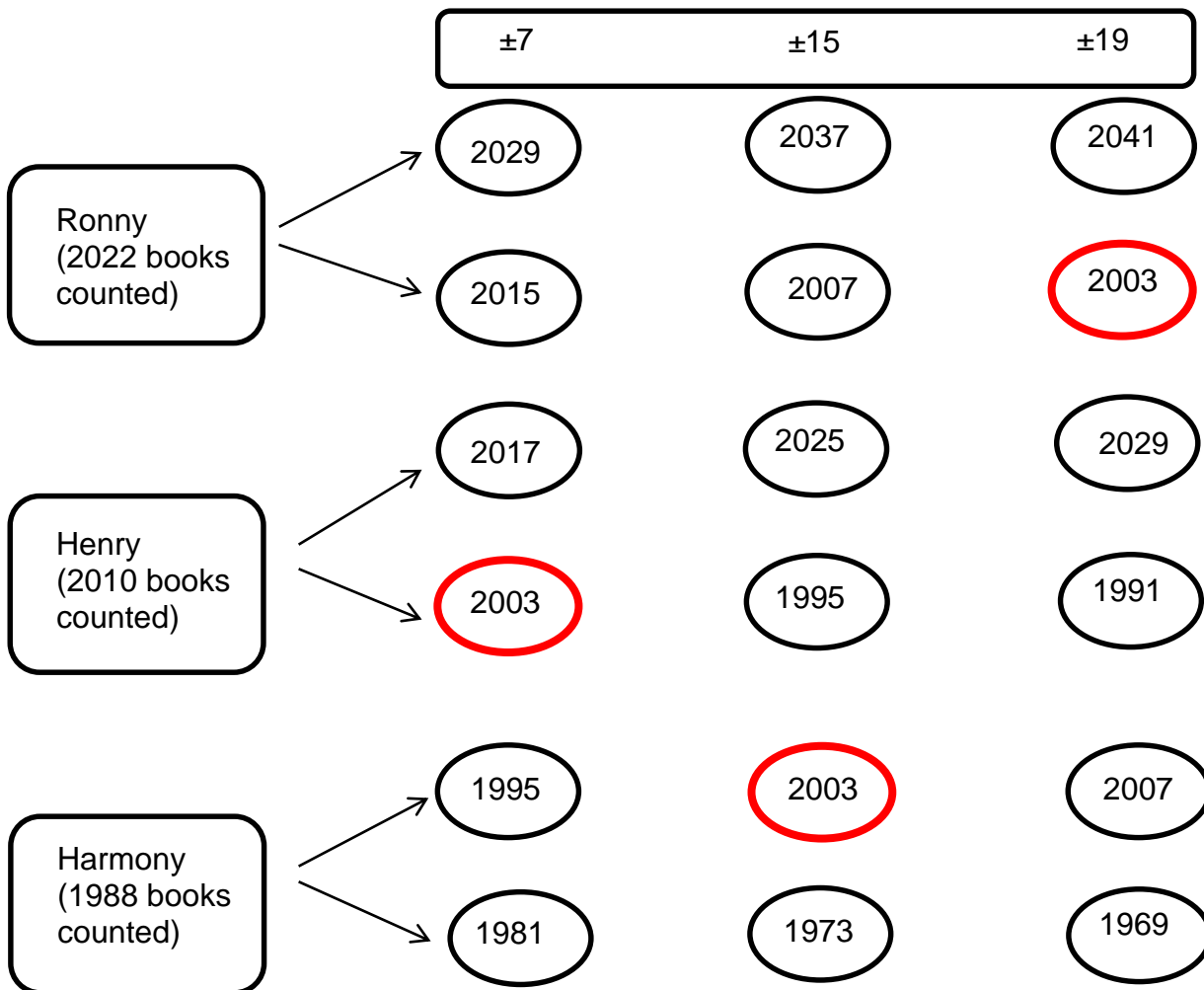


The answer:

The library has 2003 books.

The solution:

To properly understand the solution, and to ease the understanding of the problem, create a diagram or a Possibility Tree with the different possibilities.



After having done the Possibility Tree, we must find the result that is the same for Ronny, Henry, and Harmony. However, we must be careful and remember that **only one of them** miscounted 7 books, the **other one** miscounted 15 books, and the **last person** miscounted 19 books. Therefore, we must look for the same result but, the **result must be in a different column for each person**.

The result found is 2003 books. So, Ronny counted 19 books more than the correct amount, Henry counted 7 books more, and Harmony forgot to count 15 books.

Therefore, the library has 2003 books.