

## The 8<sup>th</sup> billionth baby

(for younger students)

Yep, the population of the world has just reached **8 billion** people.

1. Can you write 8 billion as a number? If you are not sure, try writing 8 thousand, then 8 million before writing 8 billion.
2. Hot dogs come in packages of 10. How many hot dog packages would I have to buy before I had 8 billion hot dogs?
3. How many hundred-dollar bills would I need to have \$8 billion dollars? Show your work.
4. There are about 334,759,170 people in the U. S. About how many times larger is the population of the world than the U.S.?
5. Find out the approximate population of either your town or your state. When the world reaches a population of 8 billion how many times greater will the population of the world will be than your town or state?

The table below shows the estimated year when each billion people milestone was reached.

5. Create a column to the right of the table that shows the number of years that it took the world population to increase by 1 billion. The first entry, of course, would only be an increase of  $\frac{1}{2}$  billion people.
6. Describe a pattern or trend that you see.

Population		
Year	Billion	
1500	.5	
1802	1	
1927	2	
1959	3	
1974	4	
1986	5	
1998	6	
2010	7	
2022	8	
Expected 2036	9	
Expected 2057	10	

During the year 2022 according to estimates:

- About 134 million people were born
  - About 67 million people died
  - World population increased by about 67 million people.
7. Create a math sentence with operations that shows how the numbers 135 million, 57 million, and 78 million are related to one another.

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Sources: [http://en.wikipedia.org/wiki/World\\_population\\_estimates](http://en.wikipedia.org/wiki/World_population_estimates)  
[https://en.wikipedia.org/wiki/Population\\_growth](https://en.wikipedia.org/wiki/Population_growth)  
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