

# What is Mitosis/Meiosis?

Genetic Science Learning Center


What is DNA? What is a Gene? What is a Chromosome? What is Inheritance? What is a Protein? What is Mitosis/Meiosis?

## What is Mitosis?

The human body is made up of about a hundred trillion cells. That's 100,000,000,000,000 cells! For comparison, a hundred trillion sheets of copy paper stacked upon each other would take you to the moon and back 25 times!

But we didn't start out that way. We each began as one single cell.

How does one cell become a trillion?



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Mitosis Copying Chromosomes Meiosis

1. How many cells are in the human body?

2. How many chromosomes do human cells have?

3. Why does an original (mother) cell double in chromosomes before it divides?

4. What types of human cells undergo a type of cell division so that they end up with half the number of chromosomes (haploid) as the original (mother) cell?

5. What type of cell division does the diagram below demonstrate? Explain

