

HAPLOID VS DIPLOID

- **Haploid:**

- **One set** of chromosomes
- In humans, **number (n) = 23**
- In humans, **gametes** (sperm & ova) are haploid

- **Diploid:**

- **Two sets** of chromosomes
- In humans, **2n = 46**
- In humans, all **body cells** (other than gametes) are diploid

Haploid (N)



Diploid (2N)



ROLE OF MITOSIS:

1. Cells divide so that organisms can GROW (growth = increase in number of cells as well as size of cells).
2. Cells also divide when new body tissues grow after damage to cells. Dead cells are replaced by new ones.
3. Some unicellular organisms reproduce asexually by mitosis – new cells are identical to parent cells.

