|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Mitosis** |  | **Meiosis** |  | **Fertilization** |
| body cells |  | haploid |  | gamete |
| diploid |  | gamete |  | embryo |
|  |  |  |  |  |
|  |  |  |  |  |
| **Cell cycle** |  | **Replication** |  | **Cytokinesis** |
| daughter cells |  | chromosome |  | cell cycle |
| mitosis |  | mitosis |  | divide |
|  |  |  |  |  |
|  |  |  |  |  |
| **Chromosome** |  | **Sister chromatids** |  | **Homologous chromosomes** |
| nucleus |  | exact copy |  | pair |
| many genes |  | chromosome |  | meiosis |
|  |  |  |  |  |
| **Diploid** |  | **Haploid** |  | **Zygote** |
| mitosis |  | meiosis |  | gametes |
| double |  | gametes |  | embryo |
|  |  |  |  |  |
|  |  |  |  |  |
| **Gamete** |  | **Gene** |  | **Allele** |
| sperm |  | inherited |  | DNA |
| egg |  | chromosome |  | chromosome |
|  |  |  |  |  |
|  |  |  |  |  |
| **Centromere** |  | **Spindle fibers** |  | **Crossing over** |
| chromosome |  | move |  | recombination |
| mitosis |  | cell division |  | meiosis |
|  |  |  |  |  |