

Life Cycle Practice

Fertilization, Zygote, Mitosis, Meiosis, Gametes

1. Sperm are gametes that are _____ (**single celled**/multicelled) and _____ (diploid/**haploid**).
2. Eggs are gametes that are _____ (**single celled**/multicelled) and _____ (diploid/**haploid**).
3. When sperm fertilizes an egg a **zygote** is formed which is _____ (**diploid**/haploid).
4. This then goes through _____ (**mitosis**/meiosis) over and over again to create a body that is _____ (single celled/**multi-celled**).
5. During this process the DNA in the cells must go through **Mitosis or Replication works here too**.
6. Once an adult multicellular organism exists it is _____ (**diploid**/haploid)..
7. In humans each cell will have _____ 46 ($n=23$, $2n=46$) _____ (how many) chromosomes.
8. At this point, germ cells in the multicellular body must go through _____ (mitosis/**meiosis**) to make **gametes**.
9. These are _____ (diploid/**haploid**) and have _____ chromosomes in humans.