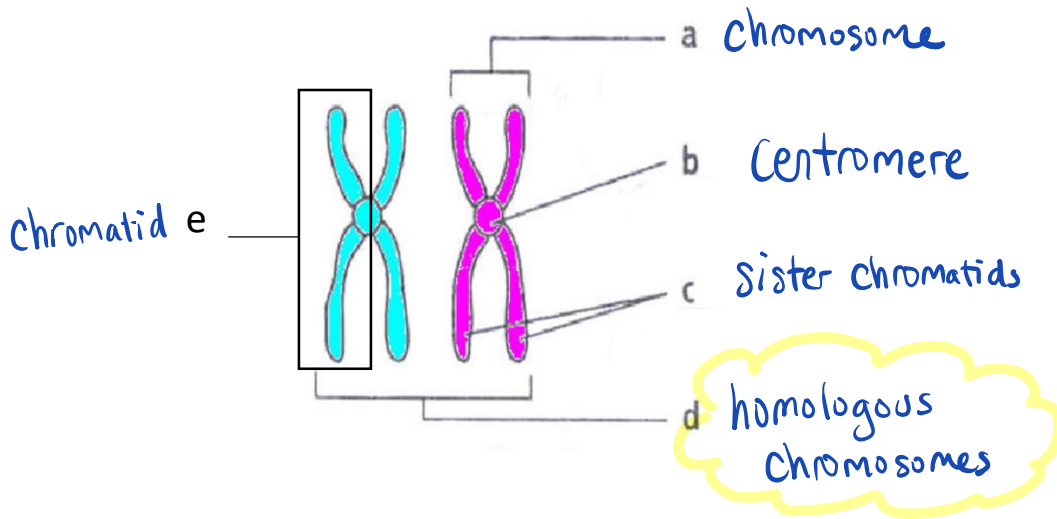


Asexual vs Sexual Reproduction Assignment

Name: Key
Date:
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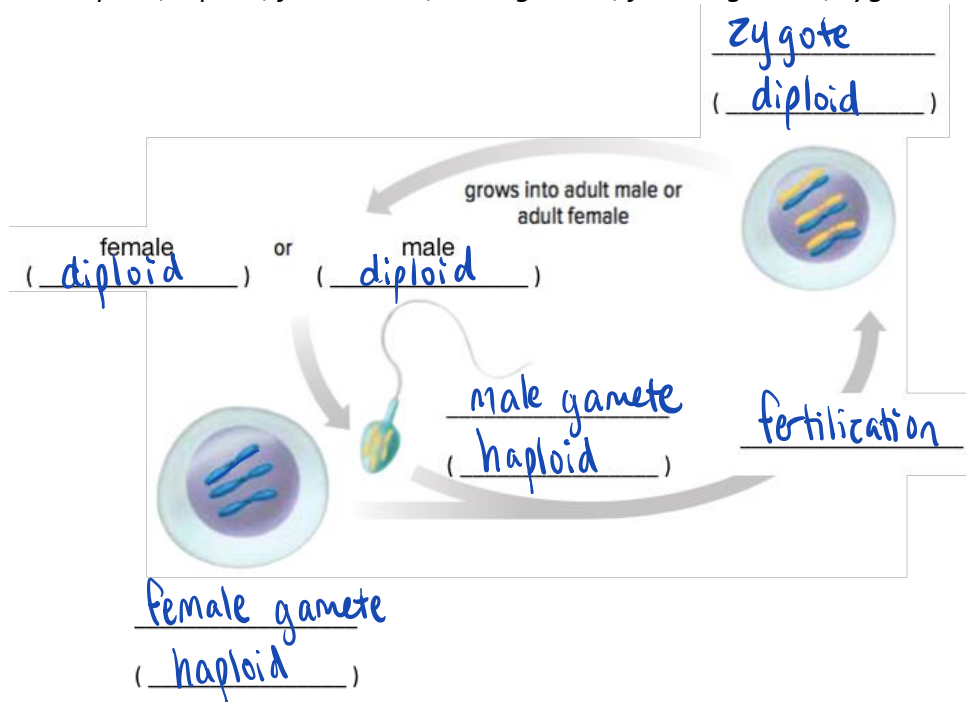
1. Label the below diagram using the following terms:

Centromere, chromosome, sister chromatids, homologous chromosomes, chromatid



2. Label the below diagram using the following terms (terms can be used more than once):

Haploid, diploid, fertilization, male gamete, female gamete, zygote



3. Complete the following table:

HAPLOID

DIPLOID

Organism	Number of Chromosomes in Gametes	Number of Chromosomes in Body Cells
Humans	23	46
Sea Otter	19	38
Chinook Salmon	34	68
Red Fox	17	34

4. For the following prompts, identify if the following is an **advantage** of asexual or sexual reproduction:

- a. Requires only one parent _____ Asexual
- b. Provides greater genetic variation _____ Sexual
- c. Requires no energy to find a mate _____ Asexual
- d. Produces offspring that are genetically identical to parent _____ Asexual
- e. Produces genetically varied offspring _____ Sexual
- f. Requires less energy to reproduce _____ Asexual
- g. Allows reproduction to be faster _____ Asexual

5. For the following prompts, identify if the following is a **disadvantage** of asexual or sexual reproduction:

- a. Takes a longer time for offspring to grow _____ Sexual
- b. Results in no genetic diversity _____ Asexual
- c. Requires more time and energy to find a mate _____ Sexual
- d. Provides limited ability to adapt to the changing environment _____ Asexual
- e. Requires gametes to make contact in order for offspring to form _____ Sexual
- f. Takes a longer time for population to grow _____ Sexual
- g. Individuals are more susceptible to disease and parasites _____ Both!