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to put that another way meiosis in humans is a division process that takes us from a diploid cell one with two sets of chromosomes to haploid cells ones with a single set of chromosomes in humans the haploid cells made in meiosis are sperm and eggs this meiosis study guide introduces you to the basics of meiosis and the meiotic process sex cells are produced through this two stage process meiosis occurs in the testes in males and in the ovaries in females in males sperm production occurs in the testes almost continuously to replenish the supply in females egg cells are made from oocytes which are produce when the female is a fetus main idea cells go through two rounds of division in meiosis circle the word or phrase that best completes the statement after a chromosome is replicated each half is called a sister chromatid polar body two chromosomes that are very similar and carry the same genes are called somatic homologous chromosomes the process that results in haploid cells is called meiosis sexual reproduction requires that diploid organisms produce haploid cells that can fuse during fertilization to form diploid offspring the four stages of meiosis in order are prophase metaphase anaphase and telophase each of the meiosis phases plays a critical role in the development of four genetically unique gametes objective explain how eukaryotic organisms sexually reproduce use this page to check your understanding of the content study guide questions carefully compare and contrast mitosis and meiosis 1 what are two ways that sexual reproduction helps create and maintain genetic diversity 2 which does sexual reproduction create new alleles or new combinations of alleles 3 how is the production of unique genetic combinations an advantage to organisms and species main idea crossing over during meiosis increases genetic diversity 4 meiosis division of a germ cell involving two fissions of the nucleus and giving rise to four gametes or sex cells each possessing half the number of chromosomes of the original cell a brief treatment of meiosis follows meiosis is the process in which a single cell divides twice to form four haploid daughter cells these cells are the gametes sperms in males and egg in females the process of meiosis is divided into 2 stages each stage is subdivided into several phases meiosis i prophase i metaphase i study with quizlet and memorize flashcards containing terms like somatic cells and gametes in the ovaries and testes 46 and more meiosis occurs in eukaryotic life cycles involving sexual reproduction consisting of the cyclical process of growth and development by mitotic cell division production of gametes by meiosis and fertilization what is meiosis and what is meiosis used for understand what type of cell division produces gametes learn about the steps of meiosis and what pmat represents 6 6 meiosis ii after the first meiotic cell division the resulting cells have been reduced from diploid to haploid because they now only have either a maternal or a paternal copy of each gene however each of these chromosomes still has two complete copies of dna the sister chromatids 6 6 meiosis and genetic variation major advantage of sexual reproduction gives rise to a great deal of genetic variation study with quizlet and memorize flashcards containing terms like 6 1 chromosomes and meiosis somatic cells germ cells and more cells go through two rounds of division in meiosis meiosis is a form of nuclear division that creates four haploid cells from one diploid cell this process involves two rounds of cell division meiosis i and meiosis ii each round of cell division has four phases which are similar to those in mitosis study with quizlet and memorize flashcards containing terms like heredity meisois gamete and more 6 6 meiosis and genetic variation chromosomes contain many genes desert rose adenium

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