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meiosis i homologous chromosomes separate and move toward opposite poles of a dividing cell meiosis ii sister chromatids separate with the two diploid cells splitting into four haploid daughter cells each containing half the number of chromosome sets as the original cell which actions below occur both in mitosis and meiosis chromosomal dna condenses in both mitosis and meiosis chromosomes condense and move and the cells pinch apart compare and contrast mitosis and meiosis both mitosis and meiosis are involved in making new cells both start with diploid 2 sets of chromosomes o interphase occurs before both duplicating chromosomes before division o both mitosis and meiosis go through pmat prophase metaphase anaphase telophase meiosis goes through pmat twice i compare and contrast mitosis and meiosis a mitosis i 4 stages purpose is cellular proliferation produces 2 diploid daughter cells chromosome number remains the same genetic variation does not change b meiosis meiosis virtual lab week 11 cell division examining meiosis click the card to flip in this simulation you will place sketches of the different phases of meiosis i and meiosis ii in the correct order and label them match micrographs of cells undergoing meiosis to the correct phase name pre lab questions compare and contrast mitosis and meiosis a comparison between mitosis and meiosis is that they re both a process of cell division but a contrast between the two is that mitosis occurs in somatic cells and meiosis occurs in sex cells what major events occurs during interphase discuss the answers to questions with a partner think pair share and then the class figure 13 6 overview of meiosis typically in sexually reproducing organisms that reduces the number of chromosomes to produce gametes or sex cells egg in female and sperm in male in the image at right meiosis occurs without error and the resulting gametes are haploid leading to a diploid zygote in the next image a nondisjunction event occurs during meiosis ii resulting in trisomy in the zygote meiosis worksheet a cell with two pairs of each set of chromosomes is called a diploid haploid cell these cells are typically found throughout the body tissues and are called germ somatic cells a cell with only one of set of chromosomes is called diploid haploid cell click to see the original works with their full license study with quizlet and memorize flashcards containing terms like what is cell division what is cytokinesis what is meiosis and more the basic features of mitosis and meiosis are discussed in your textbook read through the processes before you start this lab and make sure you are familiar with the different phases of mitosis and meiosis prophase metaphase anaphase and telophase the formation of gametes or gametogenesis is the first stage in sexual reproduction in single celled organisms e g many protista the vegetative cell can simply act as a gamete in more complex organisms specialized regions within the organism take on the role of gametogenesis lab 9 eukaryotic cell division mitosis and meiosis objectives 1 identify plant and animal cells in each stage of mitosis 2 model each stage of mitosis and meiosis 3 assess the generation of genetic diversity due to the independent assortment of chromosomes introduction in the meiosis gizmo you will learn the steps in meiosis and experiment to produce customized sex cells and offspring on the steps tab click male you are looking at a germ cell or a cell that will undergo meiosis to become gametes read the description of interphase at the bottom of the gizmo what happens to the cell at the beginning of choose 1 answer homologous chromosomes separate a homologous chromosomes separate four haploid gametes are formed b four haploid gametes are formed sister chromatids break apart c sister chromatids break apart dna is duplicated study with quizlet and memorize flashcards containing terms like mitosis meiosis cell cycle and more meiosis is a critical process as it increases genetic diversity within a species cells that divide by meiosis prepare for cellular division during interphase much like every other cell meiosis progresses through the same phases as mitosis prophase anaphase metaphase telophase and cytokinesis regina bailey updated on march 24 2017 meiosis quiz meiosis is a two part cell division process in organisms that sexually reproduce in some respects it is very similar to the process of mitosis meiosis is divided into two parts meiosis i and meiosis ii have students answer the following questions to understand the concepts explored in this activity what process did you model when you cut the strips in half in interphase what is the function of your paper clip answers for mitosis and meiosis lab get a hint explain how daughter cells become genetically identical to the mother cell during eukaryotic cell division click the card to flip

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