

Name:
Date:

Comparing Mitosis and Meiosis Worksheet

Instructions: Using a biology textbook, answer the following questions to help you understand the similarities and differences of mitosis and meiosis.

1. Define the following terms, and then identify whether they relate more closely to mitosis, meiosis, or both.
 - a. "DNA"-
 - b. "diploid" (include # of chromosomes this represents in humans!)-
 - c. "haploid" (include # of chromosomes this represents in humans!)-
 - d. "body cells" (include whether these are haploid or diploid in humans!)-
 - e. "sex cells" (include whether these are haploid or diploid in humans!)-
 - f. "gametes"-
 - g. "sexual reproduction"-
 - h. "asexual reproduction"-
2. Look at the following figure, note whether it relates to mitosis or meiosis, and then explain what the figure shows, and whether the number of chromosomes each circle would contain in a human.

2 identical cells formed Voilà you're done!	2 nuclei or cells formed; each with one set of chromosomes as paired chromatids	Telophase I
	Chromosomes, as paired chromatids condensed, distinct	Prophase II
	Paired chromatids at equatorial plate	Metaphase II
	Separation of chromatids	Anaphase II
		Telophase II