

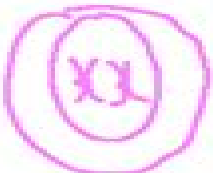
Name: Olivia MackSection: A07

Foundations of Biology (BIOL1411)

Dry Lab Worksheet: Chromosomes, Ploidy and DNA Content
Human Cells during the Mitotic Cell Cycle and Meiosis

Consider a human cell ($2n = 46$) about undergo division, either by mitosis or meiosis. In either case, the starting cell is diploid, and it must replicate all chromosomes (in S-phase) prior to M-phase events.

Draw the appearance of only ONE PAIR of chromosomes as the cell proceeds through S- and M-phases. Fill-in the missing information on DNA content and ploidy per cell considering all 23 pairs of chromosomes.

	Content (or Appearance) of 1 Cell				
	at G1	after S	after Mitosis	after MeI	after MeII
Appearance of Cell (showing just one pair of the 23 pairs that an actual cell would have to start with)	 Mother cell		 + other daughter	 + 1 other daughter	 + 3 more cells
Number of chromosomes	46	46	46	23	23
Number of chromatids	Not applicable	92	Not applicable	46	not applicable
Number of DNA molecules	46	92	46	46	23
Ploidy of Cell (n)	2n	2n	2n	n	n

Note: The *ploidy* of a cell or nucleus is based on the number of copies of each chromosome type, not on the number of chromatids. If a cell has pairs of every autosome and a pair of sex chromosomes, it is 2n or diploid. A duplicated chromosome (after S-phase) is still counted as 1 chromosome.

My Foundations Lab Answer

Emily Monosson



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