

MITOSIS AND MEIOSIS

Directions: Next to each statement below, write whether it is true for only Mitosis, only Meiosis, or for Both (Mitosis and Meiosis)

MT = Mitosis **ME** = Meiosis **B** = Both

ME	" <u>Crossing Over</u> " occurs
B	Begins with <u>Interphase</u>
ME	Creates <u>4 haploid</u> (1n) daughter cells
MT	Creates <u>2 diploid</u> (2n) daughter cells
ME	Creates a human cell with <u>23</u> chromosomes
MT	Creates a human cell with <u>46</u> chromosomes
B	Creates <u>new cells</u> (daughter cells)
ME	Creates <u>sex</u> cells (sperm, egg)
MT	Creates <u>body</u> cells (skin, blood, nerve, etc.)
MT	End product is <u>2</u> daughter cells that are <u>identical</u> to the parent cell
ME	End product is <u>4</u> daughter cells that are <u>similar</u> to the parent cell
B	Process ends with <u>Cytokinesis</u>

ME	Prophase I, Metaphase I, Anaphase I, Telophase I, Prophase II, Metaphase II, Anaphase II, Telophase II
MT	Prophase, Metaphase, Anaphase, Telophase
MT	Purpose is for <u>growth, development, and repair</u>
ME	Purpose is for <u>reproduction</u>
ME	Final results have <u>half</u> # of chromosomes as parent cell
MT	Final results have <u>same</u> # of chromosomes as parent cell
B	Starts with <u>one</u> parent cell
ME	Total of <u>11</u> stages
MT	Total of <u>6</u> stages
B	Undergoes <u>DNA replication</u>
B	Occurs in <u>plants and animals</u>