

Name:

Period:

Date:

MITOSIS vs MEIOSIS

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

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

	" <u>Crossing Over</u> " occurs		Prophase I, Metaphase I, Anaphase I, Telophase I, Prophase II, Metaphase II, Anaphase II, Telophase II
	Begins with <u>Interphase</u>		Prophase, Metaphase, Anaphase, Telophase
	Creates <u>4 haploid</u> (1n) daughter cells		Purpose is for <u>growth, development, and repair</u>
	Creates <u>2 diploid</u> (2n) daughter cells		Purpose is for <u>reproduction</u>
	Creates a human cell with <u>23</u> chromosomes		Final results have <u>half</u> # of chromosomes as parent cell
	Creates a human cell with <u>46</u> chromosomes		Final results have <u>same</u> # of chromosomes as parent cell
	Creates <u>new cells</u> (daughter cells)		Starts with <u>one</u> parent cell
	Creates <u>sex</u> cells (sperm, egg)		Total of <u>11</u> stages
	Creates <u>body</u> cells (skin, blood, nerve, etc.)		Total of <u>6</u> stages
	End product is <u>2</u> daughter cells that are <u>identical</u> to the parent cell		Undergoes <u>DNA replication</u>
	End product is <u>4</u> daughter cells that are <u>similar</u> to the parent cell		Occurs in <u>plants and animals</u>
	Process ends with <u>Cytokinesis</u>		