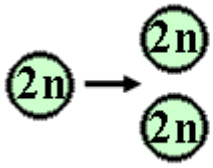
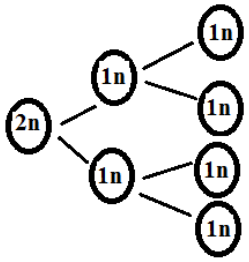
MITOSIS	MEIOSIS
Makes cells IDENTICAL to parent cell and IDENTICAL to each other	Make cells DIFFERENT from parent cell and DIFFERENT from each other
Makes TWO DIPLOID (2n) cells	Makes FOUR HAPLOID (1n) cells (with ½ number of chromosomes)
Makes body (somatic) cells All kinds of body cells can do this	Makes gametes (sperm & eggs) Only testes and ovary cells do this
Divides once Copies DNA every time cell divides	Divides twice; copies DNA once (Skip Interphase II)
PROPHASE NO synapsis / NO crossing over	PROPHASE I Synapsis & crossing over
ANAPHASE NO segregation NO independent assortment	ANAPHASE I Segregation & independent assortment
ANAPHASE chromatids separate	ANAPHASE I Homologous partners separate ANAPHASE II chromatids separate
Used by all body cells for: growth, repair injuries, replace worn out cells;	Used by ovary/testes cells to make sperm & eggs for sexual reproduction (animals)
	
NO genetic recombination	Genetic recombination
Metaphase- Chromosomes line up single file in middle	METAPHASE I Chromosomes line up with Homologous partners