Name:	Date:

Mitosis and Meiosis Worksheets

- 1) Which phase of the cell cycle is the longest? interphase
- 2) The attachment site on chromosomes for spindle fibers, and the attachment site of the sister chromatids is called the centromere.
- 3) If the n number of chromosomes of a species is 60, the 2n number is: 120
- 4) Cells need a large / small surface area to volume ratio to survive. (circle one)
- 5) Once a chromosome has been replicated during interphase, it now consists of two sister chromatids
- 6) Human somatic cells have 46 chromosomes
- 7) Cancer is uncontrolled cell growth.
- 8) How many stages are in mitosis? 4 PMAT (5 if you include prometaphase)
- 9) Chromosomes are duplicated during which stage of interphase? S-phase
- 10) Cells can avoid DNA overload by dividing.
- 11) Replication is when DNA is copied.
- 12) If the 2n number of chromosomes of a species is 50, you would expect the gametes of the species to have 25 chromosomes.
- 13) What is the relationship between the number of chromosomes in a daughter cell and a parent cell in mitosis? #'s are the same
- 14) In controlled cell growth, cells stop dividing when they come into contact with other cells.
- 15) How many chromosomes does a human cell have just before it begins mitosis? 46