Name:	Date:	

Mitosis Practice

- 1. Each parent passes on 23 chromosomes to their offspring. These chromosomes are made up of many sections of DNA called genes.
- 2. Heredity is the transmission of traits from one generation to the next.
- Variation exists in populations that reproduce sexually, offspring are not identical to their parents.
- 4. All of an individual's genes are called their genome,
- 5. Asexual reproduction is when a single individual gives rise to offspring.

These offspring are identical to their parent.

This type of reproduction occurs through the process of mitosis

Variation can occur through mutations

Some multi-celled organisms can reproduce this way through cloning (hydra)

- 6. Genetics is the scientific study of heredity and hereditary variation
- 7. In animals and plants, reproductive cells called gametes are the vehicles that transmit genes from one generation to the next
- 8. A gene's specific location along the length of a chromosome is called the gene's locus (loci).
- Except for small amounts of DNA in the mitochondria and chloroplasts,
 the DNA of a eukaryotic cell is packaged into chromosomes in the
- 10. One chromosome has between several hundred to a few thousand genes.