

**Virtual Lab: The Cell Cycle and Cancer
Metastasis**

1. In which phase of mitosis do each of the following occur?
 - a. Centrioles, spindles and chromosomes move toward opposite sides of the cell nucleus
 - b. 4 daughter cells are born, visible chromosomes
 - c. The nuclear membrane dissolves
 - d. Sister chromatids line up in the center of the cell
2. In which phases of mitosis are sister chromatids visible, and attached to each other at the centromere?

Stephens

Table 1: Record your data for the number of cells in each stage of the cell cycle observed in several tissues.

Tissue Type	# of cells in Interphase	# of cells in Prophase	# of cells in Metaphase	# of cells in Anaphase	# of cells in Telophase
Clonal Tissue Sample 1	14	1	2	0	0
Clonal Tissue Sample 2	14	0	2	1	0
Normal Tissue Sample 1	14	0	1	0	1
Normal Tissue Sample 2	14	1	1	0	2
Cancer Tissue Sample 1	17	0	1	2	0
Cancer Tissue Sample 2	14	0	0	1	0