Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Cell Cycle Labeling**



1. What moves the chromatids during mitosis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What anchors the spindle? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What are the four phases of mitosis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. How many daughter cells are created from mitosis and cytokinesis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. During what phase does cytokinesis begin? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. If a human cell has 46 chromosomes, how many chromosomes will be in each daughter cell? \_\_\_\_\_\_\_\_\_
7. If a dog cell has 72 chromosomes, how many daughter cells will be created during a single cell cycle? \_\_\_\_\_\_.....Each of these daughter cells will have how many chromosomes? \_\_\_\_\_\_\_\_\_\_\_\_
8. The nuclear membrane dissolves during what phase? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. In the cell pictured above, how many chromosomes are present during prophase? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. What structure holds the individual chromatids together? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_