

### Mitosis and Cancer Review

Fill in the blank: (write the word) Some will be used more than once.

Interphase chromatid spindle fiber prophase centromere metaphase anaphase  
telophase cell plate cytokinesis mitosis

- \_\_\_\_\_ 1. What phase are daughter cells in as a result of mitosis?
- \_\_\_\_\_ 2. During what phase of mitosis do sister chromatids separate and the chromosomes move toward their respective poles?
- \_\_\_\_\_ 3. What is the phase where chromatin condenses to form chromosomes?
- \_\_\_\_\_ 4. What is the name of the structure that connects the two chromatids?
- \_\_\_\_\_ 5. In a chromosome pair connected by a centromere, what is each individual chromosome called?
- \_\_\_\_\_ 6. What are the two parts of cell division?
- \_\_\_\_\_ 7. What structure forms in prophase along which the chromosomes move?
- \_\_\_\_\_ 8. In which phase of mitosis do the chromatids line up in the centre of the cell?
- \_\_\_\_\_ 9. Which phase of the cell cycle is characterized by a non-dividing cell?
- \_\_\_\_\_ 10. What structure is produced when protein fibers radiate from centrioles?
- \_\_\_\_\_ 11. What forms across the center of a cell near the end of telophase?
- \_\_\_\_\_ 12. The period of cell growth and development between mitotic divisions?

### Short Answer

Using colored pens or pencils, show how 2 chromosomes are passed from mother cell to two daughter cells.

