

Name: _____

Date: _____

Cell Cycle and Mitosis

1. Explain why different kinds of cells in the body might live for different lengths of time.

Some are exposed to more elements and prone to more damage (ie skin cells), others more protected (ie brain cells)

2. Predict what would happen if an individual had faulty spindle fibers.

Chromosomes would not separate properly

3. Some drugs that combat cancer inhibit mitosis. What effect might this have on healing times?

Slow down healing. Cell division needed to make new cells to replace damaged cells.

4. Predict what would happen if cytokinesis was skipped.

A cell with multiple nuclei would result

5. Why is mitosis important?

Allows cells to replicate resulting in identical daughter cells.

Allows for growth + repair