



## CHECK YOUR LEARNING

### Suggested Answers

1. The three stages of the cell cycle are interphase, mitosis, and cytokinesis.
2. **(a)** Each daughter cell will have 38 chromosomes.  
**(b)** All of the cells must contain all the genetic information for the organism.
3. Chromatids separate from one another during anaphase.
4. **(a)** Mitosis is the division of the chromosomes and nucleus. Cytokinesis is the division of the cytoplasm and cell membrane.  
**(b)** Both mitosis and cytokinesis involve the division of one thing into two.
5. Chromosomes line up along the middle of the cell and the nuclear membrane is fully dissolved.