Cell Reproduction Test

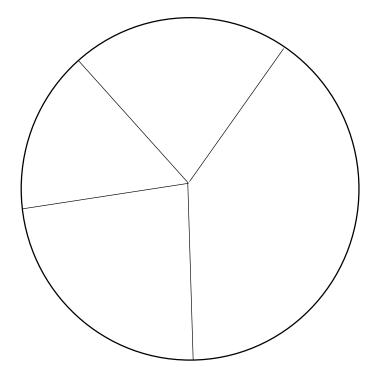
| Name | | Date | |
|------|--|--|--|
| | | | |
| 1. | The process of the cell cycle where the nucleus divides to create two identical nuclei is called | | |
| | a. | mitosis | |
| | b. | meiosis | |
| | C. | mutation | |
| | d. | interphase | |
| 2. | Somati | c cells reproduce by, while sex cells reproduce by | |
| | a. | meiosis; mitosis | |
| | b. | mitosis; mitosis | |
| | C. | mitosis; meiosis | |
| | d. | meiosis; meiosis | |
| 3. | The fina | The final step in the mitosis process for animal cells is | |
| | a. | interphase | |
| | b. | chromosome | |
| | C. | centriole | |
| | d. | telophase | |
| 4. | Which (| of these is the part of the cell that contains hereditary material? | |
| | a. | centriole | |
| | b. | chromosome | |
| | C. | centromere | |
| | d. | cytoplasm | |
| 5. | Cellula | r reproduction is involved in ALL of the following processes EXCEPT which? | |
| | a. | development | |
| | b. | cell maintenance | |
| | C. | sexual reproduction | |
| | d. | protein degradation | |
| 6. | What is | s the cell cycle? Answer in 2-3 sentences. | |

| 7. | Match the following mitoses phases with important events which occur during that phase: <u>HINT</u> : A word bank is provided. Words may be used ONCE or TWICE, but ALL words will be used | | | | |
|----|--|---------------|--|--|--|
| | Nuclear membranes disappear. | Word Bank: | | | |
| | Chromosomes condense from chromatin. | A. interphase | | | |
| | Centromeres break. | B. telophase | | | |
| | New nuclear membranes form. | C. prophase | | | |
| | G1, S & G2 phases occur here. | D. anaphase | | | |
| | Chromosomes align along metaphase plate | F metaphase | | | |

8. Label the phases of the cell cycle and their associated processes on the following diagram.

HINTS: The wedges are approximately proportional to the length of each phase. A word bank is provided and words may be used ONCE, TWICE, or NOT AT ALL.





9. Color in the following parts of the cell:

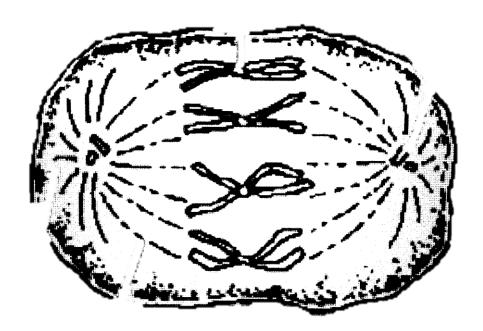
Spindle fibers – red

Chromosomes – blue

Centrioles – green

Cytoplasm – yellow

Cell membrane - orange



10. Sketch the stages of mitosis and label them. Include what the chromosomes are doing in each stage using drawings and captions for each stage. You may use the space below and the back side of this page.

HINT: There are FIVE stages total.