

Cell Cycle Practice Quiz

Name: _____

1. Replicated in the nucleus during interphase	I
2. Interphase	C
3. Nuclear membrane	B
4. Attaches to centromeres, pulls sister chromatids apart	F
5. Daughter chromosomes are pulled towards the opposite ends of the cell	A
6. Metaphase	D
7. Telophase	K
8. Cell division	E
9. Plant cell	H
10. Connects the sister chromatids together	L
11. Prophase	J
12. Cytoplasm divides	G

a) Anaphase
b) Re-forms around the chromosomes in telophase
c) The longest stage of the cell cycle
d) Chromosomes line up in the middle of the cell
e) Consists of 2 stages: mitosis and cytokinesis
f) Spindle fibers
g) Cytokinesis
h) Plate forms and becomes cell wall in this kind of cell
i) DNA
j) Nuclear membrane starts to disappear
k) Chromosomes reach opposite ends of the cell and start to lengthen
l) Centromere

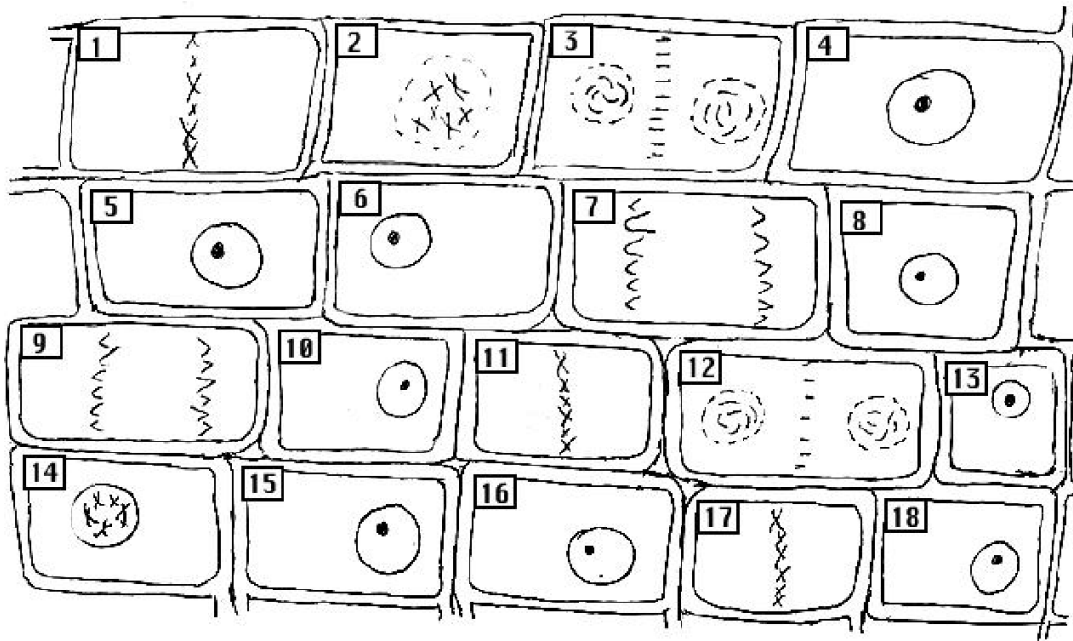
Cell Cycle Review

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

interphase chromatid spindle fiber prophase metaphase anaphase
telophase cell plate cytokinesis mitosis

- _____ cytokinesis _____ 1. What phase are daughter cells in as a result of mitosis?
- _____ anaphase _____ 2. During what phase of mitosis do sister chromatids separate and the chromosomes move toward their respective poles?
- _____ prophase _____ 3. What is the phase where chromatin condenses to form chromosomes?
- _____ centromere _____ 4. What is the name of the structure that connects the two chromatids?
- _____ chromatid _____ 5. In a chromosome pair connected by a centromere, what is each individual chromosome called?
- _____ cytokinesis _____ and _____ mitosis _____ 6. What are the two parts of cell division?
- _____ spindle fiber _____ 7. What structure forms in prophase along which the chromosomes move?
- _____ metaphase _____ 8. In which phase of mitosis do the chromatids line up in the centre of the cell?
- _____ interphase _____ 9. Which phase of the cell cycle is characterized by a non-dividing cell?
- _____ spindle fiber _____ 10. What structure is produced when protein fibers radiate from centrioles?

_____ cell plate _____ 11. What forms across the center of a cell near the end of telophase?
 _____ interphase _____ 12. The period of cell growth and development between mitotic divisions?



Identify the cells (by number) which are in the following stages of the cell cycle:

interphase _____ 4,5,6,8,10,13,15,16,18 _____

Prophase _____ 2,14 _____

Metaphase _____ 1,11,17 _____

Anaphase _____ 7,9 _____

Telophase _____ 3,12 _____