Name _____ Period 1 2 3 4 5 6 7

AP Biology – Meiosis Worksheet

Identifying Processes *On the lines provided, **order** the different stages of meiosis I THROUGH meiosis II, including interphase in the proper sequence.*

1. _____ homologous chromosome line up in the center of the cell
2. _____ spindle fibers pull homologous pairs to ends of the cell
3. _____ 4 haploid (N) daughter cells form
4. _____ cells undergo a round of DNA replication
5. _____ sister chromatids separate from each other
6. _____ 2 haploid (N) daughter cells form
7. _____ spindle fibers attach to the homologous chromosome pairs
8. _____ individual chromatids move to each end of the cell
9. _____ crossing-over (if any) occurs

Short Answer *On the lines provided, answer the following questions.*

11. Compare the number and type of cells that result from meiosis vs mitosis.

_____
_____
_____
_____

12. How do the genetic contents of cells resulting from mitosis and meiosis differ?

_____
_____

Reviewing Key Skills

13. **Comparing and Contrasting** Describe a similarity and a difference between meiosis I and meiosis II.

_____
_____

14 **Applying Concepts** If a diploid cell containing 28 chromosomes undergoes meiosis, how many chromosomes will each daughter cell have?

_____
_____

15 **Compare and Contrast:** How are mitosis and meiosis similar and different?

_____
_____
_____