

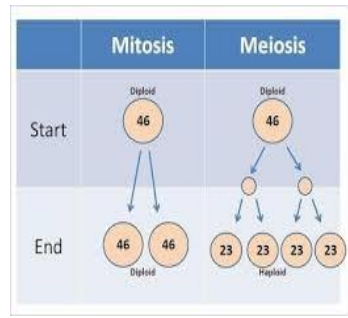
Meiosis 101 Video Questions

1. What do diploid cells contain? _____

2. 2 names for diploid cells are _____ or _____
3. The symbol for diploid cells is _____. What does the 2 represent? _____ What does the N represent? _____
Write and label the formula for diploid chromosome number below:

4. What do haploid cells contain? _____
5. What does this mean? _____
6. 2 names for haploid cells are _____ or _____
7. The symbol for haploid cells is _____
8. Fill out the chart below for diploid vs. haploid cells

	Diploid = 2n	Haploid = n
About		
Cell Division & Growth		
Examples		



9. What is Meiosis? _____

10. What phases does Meiosis involve? _____
What is the result by the end of Meiosis II? _____

Meiosis I

What happens during the following?

Prophase I - _____

Metaphase I - _____

Anaphase I - _____

Telophase I and Cytokinesis - _____

Meiosis II

What happens during the following?

Prophase II - _____

Metaphase II - _____

Anaphase II - _____

Telophase II & Cytokinesis - _____

Gametes to Zygotes

11. The male gamete is the _____ and the female gamete is the _____.
12. What happens during fertilization? _____
13. The fertilized egg is called a _____, which is the _____
14. How does the zygote develop into a new organisms? _____
15. Name 3 differences between Mitosis and Meiosis? _____

Check for Understanding – Use your knowledge of Meiosis to answer the following questions.

1. If an organism has 48 chromosomes in all, what is the diploid chromosome total? _____ What is the Haploid chromosome total? _____
2. Why is a diploid number always even? _____
3. What happens during Prophase I of Meiosis that helps with the continuity of an organism's species? _____
Explain why this is important. _____
4. How are diploid cells different from haploid cells? _____
5. What is the end result of Meiosis II? _____
6. How do gametes form a Zygote? _____
7. What are the differences between Mitosis & Meiosis? _____

fatheroninnovations.com