Meiosis Worksheet Answer Key 🖁

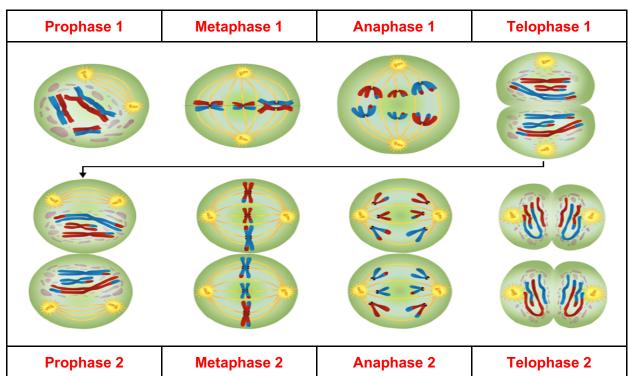
- 1. A cell with two pairs of each set of chromosomes is called a [diploid / haploid] cell.

 These cells are typically found throughout the body tissues and are called [germ / somatic] cells.
- 2. A cell with only one set of chromosomes is called [diploid / haploid] cell.

 These types of cells are found in the reproductive organs and are called [germ / somatic] cells.
- 3. Sperm and egg cells are called [gametes / zygotes]. A fertilized egg is a [gamete / zygote].
- 4. A type of cell division that results in diploid cells: [meiosis / mitosis]
- 5. A type of cell division that results in haploid cells. [meiosis / mitosis]

6.	When a sperm and egg combine, it is calledfertilization
7.	What is the diploid number for humans?46 What is the haploid number?23
8.	Matching chromosomes are calledhomologous pairs.
9.	During prophase I of meiosis, these pairs form a tetrad in a process calledsynapsis
10.	When homologous chromosomes exchange genes, it is called:crossing-over
11.	How many daughter cells are created at the end of meiosis I?2 meiosis II?4
12.	During meiosis, chromosomes will split into daughter cells randomly, making each gamete unique. This is
	calledindependent assortment
13.	The process by which sperm are made is calledspermatogenesis
14.	The process by which eggs are made is calledoogenesis
15.	During the creation of an oocyte, 3 additional haploid cells are created that will not be fertilized, these cells
	are calledpolar bodies
16.	A fertilized egg is called azygote

17. Label the Phases



18. Indicate whether the characteristic applies to mitosis, meiosis, or both, by checking the box.

	Mitosis	Meiosis
Pairing of homologous chromosomes occur		Х
Two divisions		X
Two daughter cells produced	Х	
Chromosome number is halved		X
Involves duplication of chromosomes	X	
Crossing over occurs		X
Associated with growth and asexual reproduction	X	
Associated with sexual reproduction		X
Produces gametes		X
Associated with cancer	X	
Produces identical daughter cells	X	
Recombination occurs		X
Occurs in plants and animals	Х	X
Four daughter cells are produced		Х

19. What are the key events in Meiosis I?

Homologous pairs	join and exchange	DNA during crossing	over, 2 daughter	cells are created.
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Name: Date) :
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Meiosis Worksheet

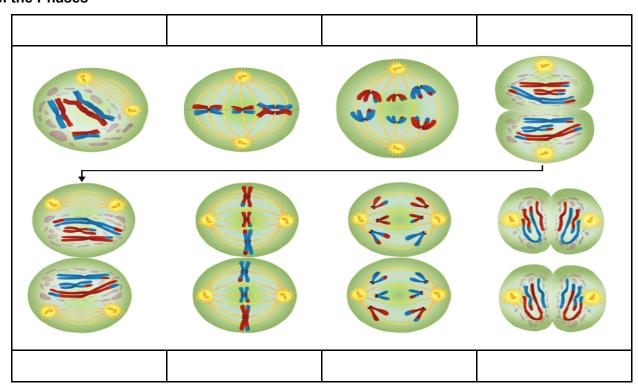


- 1. A cell with two pairs of each set of chromosomes is called a [diploid / haploid] cell. These cells are typically found throughout the body tissues and are called [gametes / somatic cells].
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- 4. A type of cell division that results in diploid cells: [meiosis / mitosis]
- 5. A type of cell division that results in haploid cells. [meiosis / mitosis]

6.	When a sperm and	l egg combine, it is called ₋	

- 7. What is the diploid number for humans? What is the haploid number?
- 8. Matching chromosomes are called
- 9. During prophase I of meiosis, these pairs form a tetrad in a process called ______.
- 10. When homologous chromosomes exchange genes, it is called: _____
- 11. How many daughter cells are created at the end of meiosis I? meiosis II?
- 12. During meiosis, chromosomes will split into daughter cells randomly, making each gamete unique. This is called
- 13. The process by which sperm are made is called
- 14. The process by which eggs are made is called
- 15. During the creation of an oocyte, 3 additional haploid cells are created that will not be fertilized, these cells are called _____
- 16. A fertilized egg is called a ______.

17. Label the Phases



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