
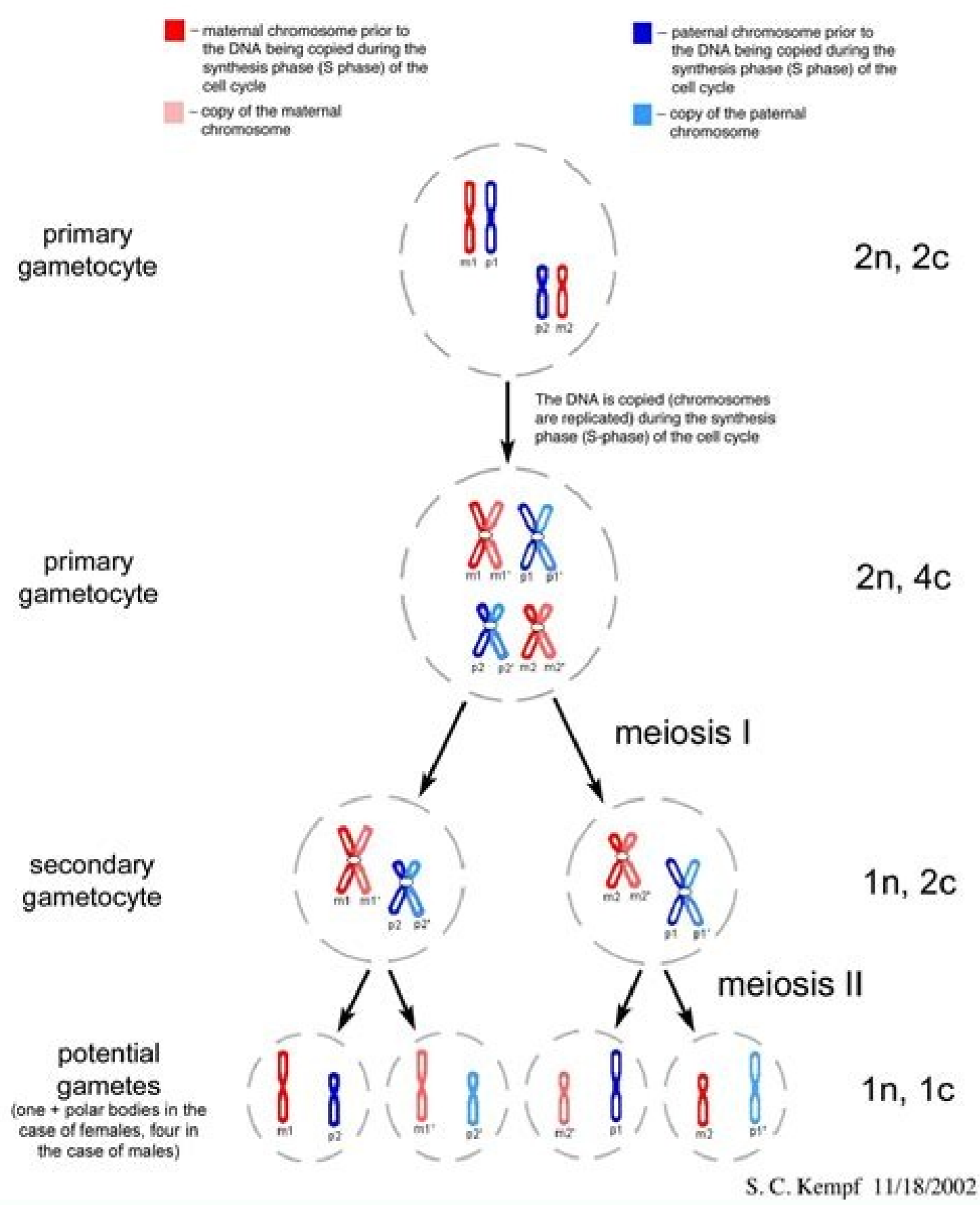


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Genetics comparing mitosis and meiosis worksheet answers



Comparing Mitosis and Meiosis Worksheet

Name: _____

Instructions: compare the two processes by completing the table below. Read each characteristic and write notes discussing any important differences, similarities or events occurring in each process. MAKE NOTE: answers such as YES and NO are not acceptable answers.

Characteristic	Mitosis	Meiosis
Importance of process in the life cycle of an organism or cell		
Type of reproduction		
Types of cells that undergo the process (areas of the body)		
Types of cells produced by the process		
Behavior of homologous chromosomes during prophase		
Behavior of homologous chromosomes during metaphase		
Number of nuclear divisions		
Replication of DNA		
Cytokinesis		
Number of daughter cells produced at the end of the process		
Mother cell's genetic makeup compared to daughter cells' genetic makeup		

SBI3U Answers

NAME: LAM RIGHT

CELL DIVISION

COMPARISON	MITOSIS	MEIOSIS
number of parent cells	1	1
number of divisions	1 division	2 successive divisions: Meiosis 1 - reduction division Meiosis 2 - similar to mitosis
# of daughter cells produced (in animals)	2 identical daughter cells	Male - 4 functional sperm cells Female - 1 functional egg cell
size of daughter cells relative to parent cell	Smaller but will grow to the same size	in males, four functional sperm cells are produced that are quite small relative to the egg cell.
# of chromosomes in parent	Diploid number - 2n 46 in humans	Diploid number - 2n 46 in humans
# of chromosomes per daughter cell at end of process	Diploid number - 2n 46 in humans	Haploid number - n 23 in humans
genetic comparison: chromosomes in parent cell versus daughter cell	daughter cells receive the correct number of chromosomes with an exact copy of information from the parent cell	At the end of the first division of meiosis, there are two daughter cells, each with exactly half the number of chromosomes of the parent cell
location of process in organism (provide examples of specific cells)	In all body (somatic) cells, with the exception of reproductive organs	Only in the reproductive organs in designated cells (gametes)
function of process	Ensures genetic continuity within the individual from cell to cell For growth, repair, and maintenance	Ensures genetic continuity from one generation to the next for a given species To prevent the doubling of chromosome number from one generation to the next
sexual or asexual reproduction?	Asexual	sexual
advantages	-Fast reproduction (identical clones) -requires only one parent cell	-variety of offspring well suited to change (more genetic variability)
disadvantages	-difficult to adapt to a change in the environment	-slower process -requires two parent cells

1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
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9	9	9
10	10	10
11	11	11
12	12	12
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14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20

20 Differences Between Mitosis and Meiosis

Answer the following questions in your answer space. (Please copy the questions and answers into your notebook for reference.)

1. Fill in the following table:

	Mitosis	Meiosis
Function in cell organism	Mitosis "renewal function" - it replaces damaged cells that are genetically identical to the parent cells.	Meiosis "sexual function" - it produces daughter cells that are genetically different from parent cells.
Is it more DNA is replicated	1	2
Is it haploid	2	4
Are homologous chromosomes paired up?	no	yes
Does genetic recombination occur?	no	yes
Number of daughter cells	2	4
Genetic of the daughter cells	identical	different
Where does it occur in the organism (location)	everywhere	reproductive and germinal
Meiosis occurs in animals - humans, plants, etc. (Is specific about the organism)	animals	animals

2. Answer the following questions regarding meiosis:

a. What are the main events in each meiotic division?

Meiosis consists of two successive divisions: meiosis I and meiosis II. Meiosis I is the reductional division, where the chromosome number is reduced from 2n to n. Meiosis II is the equational division, where the chromosome number remains n.

b. What is crossing over? How does it occur?

20 differences between mitosis and meiosis. How do you compare mitosis and meiosis. What are the 3 main differences between mitosis and meiosis. Genetics comparing mitosis and meiosis coloring worksheet answers. What are 10 similarities and differences between mitosis and meiosis.

An unique characteristics of the meiosis, which occurs during the first round of divisions (prophase I), is a process called crossing. Most of the cells in the body pass regularly by the mitosis, but some do more frequently than others. For example, those who line the stomach are replaced after only a few days because they are subject to digestive agents. Crédo: Judith Stoffer. Meiosis occurs only in the production of spermatozooids and oocytes for sexual reproduction. The phases of cell division before mitosis or meiosis occurs, the cells undergo a preparatory process called interphase, where they grow and make a copy of their genetic information. Mitosis has six phases in addition to the interphase. There are two types of cell division: mitosis and meiosis. The phases of the mitosis are: prophase: chromosomes, which contain genetic information, condense and prepare to bind to the spindle - a cell phone that moves chromosomes during cell division. Prometaphase: The nuclear membrane that normally contains the chromosomes - separate, the spindle forms and the chromosomes attach to their strong and hollow fibers. METAPHASE: The chromosomes line in the center of the spindle. Anaphase: The chromosomes separate and move toward the spindle, which also remove. telophase: new nuclear envelopes around the two separate sets of chromosomes. Cytokinesis: Cells divide. Meiosis has similar steps for mitosis, but with two sets of divisions. Meiosis Division Research financed by NIGMS many scientists who are supported by the NIGMS cell division. The first five phases divide the number and its genetic information in the middle, while the final step divides the entire handle of hand in two ideas daughter skills. Click to enlarge What is the difference? Your body is composed of trillions of cells that originate from only one - a fertilized egg. If you are behind a of the web, please make sure if The domains * .kastatic.org and * .khanbox.org are unlocked. In contrast, fatigue can do to be waited for a year to replace themselves. The second division creates four centers containing a set of chromosomes, because the generation is not copied for the second time. Mitosis produces two genetically identical clones à c c Ady c A c c of a à n c c c c à c "Parent c c c c A isoner c c A ours c c Ady c c Ady "Parent c c Ady c c A isoner" If you are seeing this message, it means that we are having trouble carrying external resources on our site. \$As is mobile division, which occurs when a ciona is divided into two. DNA is mixed between corresponding chromosomes of different parents, increasing the genetic diversity. It is shown right. The mobile division is not being growth, but it also replaces damaged or dead squids and makes the reproduction possible. Some of these researchers are investigating how them Con © Lulas: Keep the Normal Cell Division through align and separate the chromosomes through the spindle during mitosis and gene errors Megestvent icos of being introduced during crossing in Minema dedicide to grow and divide or enter a rest phase, which is important to understand diseases caused by excessive or insufficient cell division, there are also some types that They last a lifetime without dividing, like some nerve squids and squids that buy the eye lens. The first division results in two centers that each has two sets of chromosomes, such as mitosis. mitosis.

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