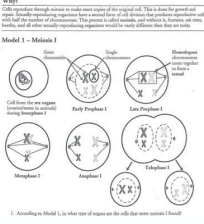


I'm not robot!

COMPARING MITOSIS AND MEIOSIS Name _____

Determine whether the following characteristics apply to mitosis, meiosis or both by putting a check in the appropriate column(s).

	Mitosis	Meiosis
1. no pairing of homologs occurs		
2. two divisions		
3. four daughter cells produced		
4. associated with growth and asexual reproduction		
5. associated with sexual reproduction		
6. one division		
7. two daughter cells produced		
8. involves duplication of chromosomes		
9. chromosome number is maintained		
10. chromosome number is halved		
11. crossing over between homologous chromosomes may occur		
12. daughter cells are identical to parent cell		
13. daughter cells are not identical to parent cell		
14. produces gametes		
15. synapsis occurs in prophase		



Understanding Absolute Value Name: _____

Use the numberlines to find the absolute value.

Question	Numberline	Answer
1) 1) What is the value of $ A $? b. How far is 'A' from 0 (absolute value)?		1. _____
2) 2) What is the value of $ A $? b. How far is 'A' from 0 (absolute value)?		2. _____
3) 3) What is the value of $ A $? b. How far is 'A' from 0 (absolute value)?		3. _____
4) 4) What is the value of $ A $? b. How far is 'A' from 0 (absolute value)?		4. _____
5) 5) What is the value of $ A $? b. How far is 'A' from 0 (absolute value)?		5. _____
6) 6) What is the value of $ A $? b. How far is 'A' from 0 (absolute value)?		6. _____
7) 7) What is the value of $ A $? b. How far is 'A' from 0 (absolute value)?		7. _____
8) 8) What is the value of $ A $? b. How far is 'A' from 0 (absolute value)?		8. _____
9) 9) What is the value of $ A $? b. How far is 'A' from 0 (absolute value)?		9. _____
10) 10) What is the value of $ A $? b. How far is 'A' from 0 (absolute value)?		10. _____

MathMap 2

Meiosis - Internet Lesson

Name: Michael Plasmeier

In this investigation, you will view sites that illustrate the process of meiosis. For each site answer the questions associated.

Site 1 - Lew-Port's Meiosis Page
<http://www.lewport.wnyric.org/jwanamaker/animations.htm> -->
 click on Meiosis

- How many chromosomes does the cell in this animation start with ? 3
- The homologous pairs are represented by similar colors
- Copies of chromosomes are held together by the centromere
- Each chromosome finds its partner
- Draw "crossing over" - using your pencil to shade in the areas that exchange parts. (yes, you have to draw it...)



- How many chromosomes are at each pole of the cell? Half
- During meiosis 2, chromosomes line up again along the cell's equator.
- Only one copy of each chromosome moves toward the poles. Which means only 3 chromosomes of the original six.
- New membranes form around each new nucleus of a gamete cell
- Each cell divides, forming a total of 4 cells.

Site 2 - Sumanas Inc., Animation of Meiosis
<http://www.sumanasinc.com/webcontent/anisamples/majorsbiology/>
 --> click on Meiosis

11. Read the introduction. Explain the difference between sexual and asexual reproduction. Asexual reproduction just involved mitosis and creates an identical copy of the cell (genetically identical diploid cell). On the other hand meiosis produces 4 genetically different haploid cells. These cells must then mate with another gamete (from another parent perhaps) in order to create an offspring which is genetically different.

(Click to Animation)

- DNA replication takes place when? During interphase I before meiosis
- Meiosis consists of two cell divisions: meiosis I & meiosis II
- Centrosomes migrate to opposite poles of the cell
- The pairing of homologous chromosomes is called: synapsis
- Crossing over points are called chiasmata
- What happens in metaphase I: homologous chromosomes have lined up on the equatorial plate in a pair wise fashion, with one chromosome on each plate
- What happens during anaphase I chromosomes from each pair move to opposite poles of the cell. The centromeres do not divide, so each chromosome still consists of 2 sister chromatids (may not be identical)
- What is interkinesis? A short interphase period which occurs in some organisms after the cell has split in two during meiosis I - no DNA replication!
- In prophase II, each cells is haploid
- In metaphase II, chromosomes line up in single file on the equatorial plate.
- What happens during telophase II? Chromosomes again decondense and nuclear membranes re-form. Depending on the species, cytokinesis may occur.

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