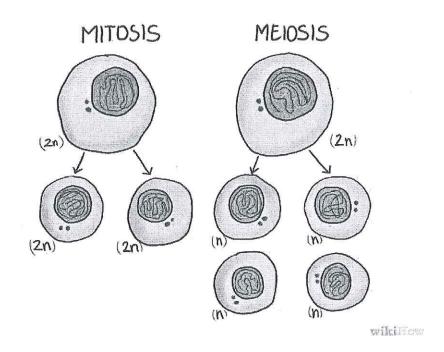
Name:	Period:
Cell Division and	Meiosis Review
1. What type of cell undergoes meiosis? <b>gamete</b>	e cells or somatic cells
2. For each of the following, is the cell diploid or hapl	oid?
Somatic cell	Gamete Gid
Egg cell hap 55d	Muscle cell
Sperm cell hap oid	Heart cell diploid
	Bone cell diploid
3. If the diploid number in a white blood cell of an organism?	ganism is 62, how many chromosomes are there in
4. The muscle cells of a dog have 78 chromosomes. H have:	ow many chromosomes will each of the following
dog's skin cell	78
5. What is the difference between haploid, diploid, an	nd a zygote?
then 2n	'Zn
6. Why does meiosis reduce the number of chromoso	me in gametes (think fertilization)?
blc in fertilization	me in gametes (think fertilization)?
7. An egg cell is a (gamete or zygote), and is (haploid	or diploid). $= 46 (yyo)$
8. Asexual reproduction of cells is accomplished by:  a) mitosis b) meiosis	c) cytokinesis d) photosynthesis
	d) photosynthesis
<ul><li>9. Sexual reproduction of cells is accomplished by:</li><li>a) mitosis</li><li>b) meiosis</li></ul>	c) cytokinesis d) photosynthesis
10. Which process(es) begin with DNA replication?	
a) mitosis b) meiosis	<ul><li>c) both mitosis and meiosis</li><li>d) neither mitosis or meiosis</li></ul>

11. Which process(es) end with cytokinesis?  a) mitosis b) meiosis	both mitosis and meiosis d) neither mitosis or meiosis			
12. Which process(es) contain only 1 division of cells?  a) mitosis  b) meiosis	c) both mitosis and meiosis d) neither mitosis or meiosis			
13. Which process(es) contain 2 divisions of cells?  a) mitosis b) meiosis	c) both mitosis and meiosis d) neither mitosis or meiosis			
14. Which process(es) result in 2 identical cells?  a) mitosis b) meiosis	c) both mitosis and meiosis d) neither mitosis or meiosis			
15. Which process(es) result in 4 different cells?  a) mitosis  b) meiosis	c) both mitosis and meiosis d) neither mitosis or meiosis			
16. Which process(es) occur in body cells (such as skin, muscle a) mitosis b) meiosis	, and bone)? c) both mitosis and meiosis d) neither mitosis or meiosis			
17. Which process(es) occur to make gametes (sex cells)?  a) mitosis b) meiosis	c) both mitosis and meiosis d) neither mitosis or meiosis			
18. What is the process of sperm and egg combining?  a) fertilization b) nondisjunction	c) mutation d) crossing over			
Complete the table by checking the correct column(s) for each description.				

Description	Mitosis	Meiosis
19. Involved in the production of gametes		×
20. Involved in growth and repair	X	
21. Promotes genetic variation in organisms		X
22. Consists of one nuclear division	×	
23. Produces daughter cells that are genetically identical	×	
24. Involves two sets of nuclear divisions		×
25. Produces daughter cells that are not identical		×
26. Results in four haploid gametes	AT.	X

27. Both diagrams below show cell division. Label them as either mitosis or meiosis.

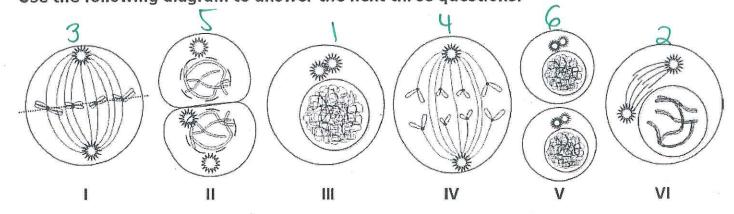


28. How are meiosis and mitosis different/same?

Mitosis = 2 cells, identical somatic cells, 2n, I division

Meiosis = 4 cells, genetic Variety, gameter, n, 2 divisions

Use the following diagram to answer the next three questions.



- 29. Refer to the diagram. Arrange the stages in order.
  - a) I, II, III, IV, V, VI
  - b) VI, II, I, IV, V, III

30. What is the name of this process?

a) metaphase
b) mitosis — 2 cells (identical)

CYIII, VI, I, IV, II, V d) V, II, IV, I, II, VI

- c) meiosis
- d) mucousis

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