

Cell Reproduction Worksheet

Name _____

Section A: Why must a cell divide?

Cells are limited in size because the membrane must transport materials to the inside of the cell. As a cell gets bigger, the outside is unable to keep up with the inside, because the inside grows at a faster rate than the outside. As cells get larger, the surface to volume ratio gets smaller, meaning the cell membrane cannot supply the inside with what it needs to survive. Cell division occurs so multicellular organisms can grow and repair damaged tissue. In multicellular organisms, division occurs to produce egg and sperm for reproduction. In unicellular organisms, division is needed to reproduce the organism.

- In multicellular organisms, why do cells need to divide? _____

Section B: Vocabulary

- Explain the relationship between chromosomes, genes and DNA. _____
- Define diploid. _____
- Define haploid. _____
- Check the correct box that matches the description of the two types of Eukaryotic cells. 



- Why is the chromosome number in each animal cell an even number? _____
- Why is it important that gamete cells have only one set of chromosomes? _____
- What are the two types of gametes? _____

	Body Cells	Sex Cells
a. 46 chromosomes in humans		
b. haploid		
c. somatic cells		
d. diploid		
e. 23 chromosomes in humans		
f. gametes		
g. muscle cells		
h. sperm		

- What process is the fusion of gametes that create a zygote? _____ Is a zygote a diploid or haploid cell? _____
- The data table shows the number of chromosomes for somatic cells.
 - Chromosome # for diploid human cell? _____
 - Chromosome # for haploid pea plant? _____
 - Chromosome # for dog gamete? _____
 - Chromosome # for diploid frog cell? _____
 - If a frog cell had 26 chromosomes, then the cell is diploid or haploid.
 - If a mosquito cell had 3 chromosomes, then it would be a gamete or somatic cell.
 - If an orangutan cell had 24 chromosomes, then the cell is diploid or haploid.
 - If a corn cell had 20 chromosomes, then the cell is diploid or haploid.

Organism	2n
Mosquito	6
Frog	26
Orangutan	48
Corn	20
Dog	78
Human	46
Pea Plant	14

- In the karyotyping activity, identify the diploid number, gender and chromosomal abnormality in each patient.
 - Patient A - _____
 - Patient B - _____
 - Patient C - _____
 - Patient D - _____

- Label the sister chromatids and the centromere on the duplicated chromosome. Label the chromatid and centromere on the single chromosome.



- _____ is a segment of DNA that codes for a protein.
- What are homologous chromosomes? _____

Cell Regulation And Reproduction Answers

Lorraine Ann Gill



Cell Regulation And Reproduction Answers:

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Physiology Arthur C. Guyton,1971 Journal of Reproduction & Fertility ,1990 **Electrical Times ...** ,1914 The New International Encyclopædia Daniel Coit Gilman,Harry Thurston Peck,Frank Moore Colby,1907 Characterization of the reactivities of anti-cellular sera with tumor cells in vitro Lorraine Ann Gill,1977 Cell Differentiation Ole A. Schjeide,Jean De Vellis,1970

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