Name: _		Row:
	Date:	Period:

Number of Chromosomes Worksheet

- What is the definition of haploid?
- What is the definition of diploid?

The data table below shows the number of chromosomes for somatic cells. Ouestions 3-18.

Organism	# of Chromosomes	Organism	# of Chromosomes
Mosquitò	6	Pea Plant	14
Housefly	12	Com	20
Frog	26	Human	46
Orangutan	48	Dog	78

3.	What is the number of chromosomes for diploid numan cens?
4.	What is the number of chromosomes for haploid pea plant cells?
5.	What is the number of chromosomes for diploid orangutan cells?
6.	What is the number of chromosomes for diploid dog cells?

- What is the number of chromosomes for human gamete cells? 7.
- What is the number of chromosomes for diploid frog cells? S.
- If a frog cell had 26 chromosomes, would that cell be diploid or haploid? 9.
- If a housefly cell had 6 chromosomes, would that cell be diploid or haploid?
- If an orangutan cell had 24 chromosomes, would that cell be diploid or haploid?
- If a pea plant cell had 14 chromosomes, would that cell be diploid or haploid?
- If a mosquito cell had 3 chromosomes, would it be a gamete or somatic cell?
- If a corn cell had 18 chromosomes, would it be a gamete or somatic cell?
- If a housefly cell had 12 chromosomes, would it be a gamete or somatic cell?
- If a pea plant cell had 14 chromosomes, would it be a gamete or somatic cell?
- If a dog cell had 78 chromosomes, would it be a gamete or somatic cell?
- If a human cell had 23 chromosomes, would it be a gamete or somatic cell?

6.

19.	Why is the chromosome number in each of the animal cells an even number?
20.	Write two types of gametes?
21.	What is the process called when the fusion of gametes create a zygote?
22.	Is a zygote a diploid or a haploid cell?
23.	Why is it important that gamete cells have only one set of chromosomes?
24.	Draw a chromosome and label the sister chromatids and the centromere below.
25.	Why does a chromosome has two sister chromatids?
26.	
	chromosomes.
27.	•
	other set comes from the dad's
	rcle haploid or diploid in of the questions below. In the human body, nervous system cells are <u>haploid</u> or <u>diploid</u> .
	To the learners hadry compare cells are haploid or diploid
29.	and the second section of division
30. 31	and the state of t
32	to the transport of the second
33	
<i>33</i>	to the second and harded or dislaid.
35	
36	the second subsection of the second s
37	and the state of t
38	to the support of the