

Chromosome Number Worksheet

Complete the table below to indicate the number of homologous chromosome pairs, diploid number (2n) and the haploid number (n) for each species.

	Organism	# of homologous chromosome pairs	Haploid # n	Diploid Number 2n
1.	Human	23	23	$2(23) = 46$
2.	Orangutan	24	24	$2(24) = 48$
3.	Alligator	_____	_____	32
4.	Apple	17	_____	_____
5.	Bat	_____	22	_____
6.	Chicken	_____	_____	78
7.	Camel	35	_____	_____
8.	Fruit Fly	4	_____	_____
9.	Goat	_____	_____	60
10.	Gold Fish	_____	_____	94
11.	Gorilla	24	_____	_____
12.	Guinea Pig	32	_____	_____
13.	Horse	_____	32	_____
14.	House Fly	_____	_____	12
15.	King Crab	104	_____	_____
16.	Leopard Frog	_____	_____	26
17.	Lettuce	_____	9	_____
18.	Mosquito	_____	3	_____
19.	Opossum	_____	_____	22
20.	Pea	7	_____	_____
21.	Potato	_____	_____	48
22.	Rice	12	_____	_____
23.	Rose	_____	7	_____
24.	Wheat	_____	_____	42

Using the information in the table, above, answer the following questions:

25. How many chromosomes would you find in the egg cell of a leopard frog? _____
26. How many chromosomes would you find in the gametes of a leopard frog? _____
27. How many chromosomes would you find in a somatic cell of a gorilla? _____
28. How many chromosomes would you find in a sperm cell of a male gorilla? _____
29. How many chromosomes would you find in the pollen cells of a rice plant? _____
30. How many chromosomes would you find in the leaf cells of a rice plant? _____
31. How many chromosomes would you find in the liver cells of an opossum? _____
32. How many chromosomes would you find in stem cells from a wheat plant? _____
33. How many chromosomes would you find in an ovum from a rose plant? _____
34. How many chromosomes would you find in the cells of a rose petal? _____
35. How many chromosomes would you find in leaf cells from a lettuce plant? _____
36. How many chromosomes would you find in a guinea's gametes? _____
37. How many chromosomes would you find in a guinea pig zygote? _____
38. How many chromosomes would you find in guinea pig stomach cells? _____
39. How many chromosomes would you find in guinea pig somatic cells? _____
40. How many chromosomes would you find in guinea pig egg cells? _____
41. How many chromosomes would you find in the cells of a lettuce seed (this is equivalent to an embryo)? _____
42. How many chromosomes would you find in a potato plant's diploid cells? _____
43. How many chromosomes would you find in a potato plant's haploid cells? _____
44. If a king crab has 104 pairs of homologous chromosomes, how many chromosomes would be in its egg cells? _____
45. If a king crab has 104 pairs of homologous chromosomes, how many chromosomes would be in its zygote? _____