

GENES AND CHROMOSOMES

Fill in the missing words:

Characteristics that are passed on from parents to their children are _____. When an organism reproduces _____, both the parent and the offspring have the same _____. When organisms reproduce sexually, the offspring inherit _____ the genes and chromosomes from the _____ and the other half from the _____. The material found in the nucleus of an egg and a sperm are _____ for the characteristics of the offspring. This material in the _____ is known as chromosomes. All organisms have a _____ number of chromosomes that determine all the characteristics of an organism. Every body _____ in a human contains only _____ chromosomes (23 pairs). Each sex cell, _____ or _____ contains 23 chromosomes. When the egg and the sperm unite, the new fertilised cell (the zygote) has _____ chromosomes. All humans have 23 pairs of chromosomes. The 23rd pair is known as the _____ chromosomes. In a male human, the sex chromosomes are _____, and in a female human, the _____ chromosomes are XX. Because each sex cell contains only half the number of chromosomes (1 of each _____), sperm cells contain either an X or a _____ chromosome. All egg cells contain an _____ chromosome. The parent who determines the sex of the child is the _____. The chance of having a daughter is the same as that of having a _____.