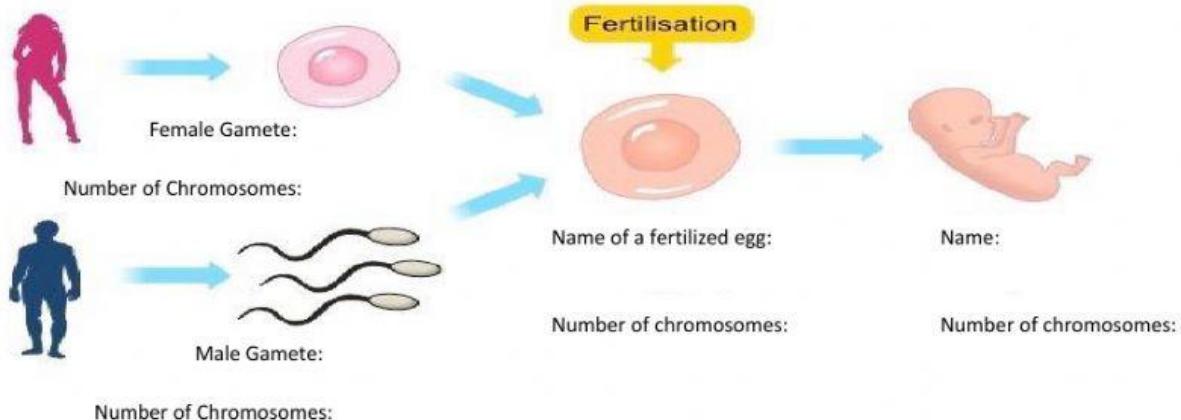


INTRODUCTION TO GENETICS

1. Drag and drop the terms below to complete the diagram

46 46 23 23 sperm embryo egg zygote



2. **Mitosis vs Meiosis:** Drag and drop the boxes below to match the characteristics of mitosis or meiosis.

	Mitosis	Meiosis
Purpose		
Number of Cell Divisions		
Number of Daughter Cells & Genetic Similarity to Parent		
Number of Chromosomes in Each Daughter Cell		
Picture		

growth & development of the organism; healing wounds

23

2; they are genetically identical to the parent

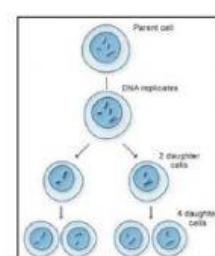
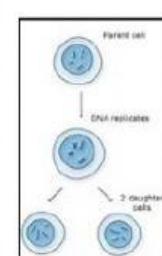
1

production of gametes

2

4; they are genetically unique from the parent

46



3. Who Has What Number?

Organisms of the same species have the same number of chromosomes, but different species have different numbers of chromosomes. Complete the table below to compare the chromosome numbers in some common species.

Organism	Number of chromosomes in a cell at the end of mitosis	Number of chromosomes in a body cell	Number of chromosomes in a gamete	Number of chromosomes in a zygote	Number of chromosomes contributed by each parent
human			23		
cabbage	18				
black bear					38
peanut	40				