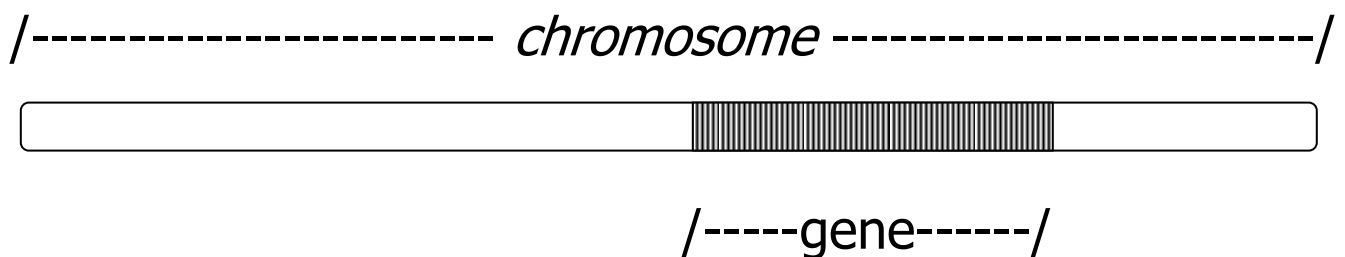


CHROMOSOMES

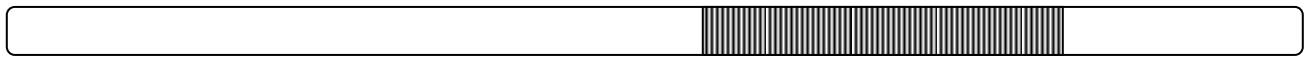
- found inside nucleus
- made of DNA
- 46 chromosomes in humans (23 pairs)
- get one half from **each** parent for **each** trait
- GENES are sections of DNA within the chromosome



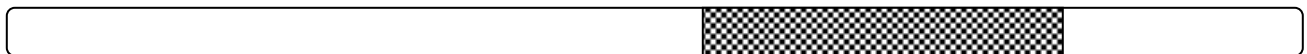
GENES

- genes code **directions** for building proteins
- 20,000-35,000 genes in human genome
- dominant and recessive
- same gene but code is for a different protein (allele)

brown eyes



blue eyes



MEIOSIS

- makes sex cells (egg or sperm)
- parent cell divides by MITOSIS into two new cells
- these new cells divide in half to create egg or sperm
- each new cell has chromosomes from original pair (**half** the original genetic information)
- huge variation of traits (always new coin flip)

