

KEY FACTS

- Meiosis: 4 different haploid cells (23 chromosomes in humans)
- Fertilisation restores diploid (23+23=46)
- ★ Crossing over + independent assortment → variation

EQUATIONS / FORMULAS

Combinations from independent assortment: $2^{23} \approx 8$ million (humans)

KEY TERMS

Haploid	Half chromosome number — 23 in human gametes
Crossing over	DNA exchanged between homologous chromosomes — creates variation

■ EXAM TIP: Meiosis = 4 cells, haploid, different. Mitosis = 2 cells, diploid, identical.