

16 Meiosis and variation — Part 1 — Answers

Answers

Work through these after trying the questions yourself.

16.1 Two.

16.2 Gametes (sex cells).

16.3 Four.

16.4 Haploid.

16.5 Crossing over or independent assortment.

16.6 During meiosis, crossing over swaps segments between paired chromosomes and independent assortment lines the pairs up in a random order. These shuffle the alleles differently for each gamete, so every gamete — and every child made from one — gets a different combination of alleles.