

Solutions

Each answer shows the steps, then the **result**.

2.1

- fertilisation is the **fusion of the nuclei** of a male and a female gamete

2.2

- sexual reproduction needs **two** parents

3.1 B

- a gamete nucleus is **haploid** (one set of chromosomes)
- A is a body cell; C and D are false

3.2

(a)

- offspring receive a **mix of genes** from two parents
- so they are **genetically different**

(b)

- some offspring may **survive if the environment changes**