

17 Chromosomes, genes and DNA – Part 1 —Answers

Answers

Work through these after trying the questions yourself.

17.1 DNA.

17.2 A length of DNA that codes for one protein.

17.3 An alternative form of a gene.

17.4 Male: XY; female: XX.

17.5 The father's (the sperm), because the sperm carries either an X or a Y, while the egg always carries an X.

17.6 The egg always carries an **X**. Half the sperm carry **X** and half carry **Y**, with an equal chance of fertilising the egg. An X-sperm gives **XX** (girl) and a Y-sperm gives **XY** (boy), so the ratio is about **1:1**.