Answers to end-of-chapter questions

Inheritance, evolution and variation

Chapter 14 Reproduction

It is very important that you are able to answer the questions on your own, using your own knowledge of Biology. Have a go at the questions first, and then check your answers using this page. If you get a question wrong, try to work out where you have made an error.

1 One, many, clones, two, gametes, fertilisation, variation, sexual, asexual, identical, sterile, tissue, embryo, stem, incurable.

2 a) One
b) To prevent any more sperm from entering the egg.

3 a) The grapes are produced from flowers made by the European stem cutting. The grapes therefore have the same genetic makeup as the European stem cutting.
b) Small pieces of tissue are cut off a disease-resistant European vine plant. These are then sterilised and transferred to sterile agar jelly in a culture bottle. The tissue starts to divide and grows and if the agar contains the right nutrients and hormones then the tissue will develop into an explant. Eventually the explants will be big enough to be grown on in compost. This will result in large numbers of disease-resistant vines.