

19 Copying and sorting DNA – Part 2

—Answers

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Work through these after trying the questions yourself.

19.6 Making millions of copies of DNA (cloning/amplifying it).

19.7 It doubles.

19.8 Length (size).

19.9 The positive (+) end.

19.10 Shorter fragments.

19.11 DNA carries a *negative* charge (from its phosphate groups), so in the electric field it is pulled towards the *positive* electrode. Shorter fragments pass more easily through the tiny pores of the gel, so they move faster and end up further along than the longer, bulkier fragments.