1. Chromosomes contain molecules of DNA. Genes are small sections of DNA. Each gene contains a code. What does a cell use this code for?

(2 marks)

1 (a) (i) DNA fingerprints can be used to identify people. One example of the use of DNA fingerprints is to find out which man is the father of a child.

The diagram shows the DNA fingerprints of a child, the child's mother and two men who claim to be the child's father.

The numbers refer to the bars on the DNA fingerprints.

Which man, A or B, is more likely to be the father of the child?

Use the numbers on the DNA fingerprints to explain your choice.

In your answer you should refer to all four people.

(3 marks)

1 (a) (ii) Only half the bars of the child's DNA fingerprint match the mother's DNA fingerprint. Explain why.

(2 marks)

(Total 7 marks)

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