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$\boldsymbol{\Gamma}$	4	
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In Europe, viruses have infected a large number of frogs of different species. The viruses are closely related and all belong to the Ranavirus group.

Previously, the viruses infected only one species of frog.

	echniques the scientists may have used when analysing viral rmine that the viruses were closely related.
Determining	the genome of the viruses could allow scientists to develop a
Determining raccine.	the genome of the viruses could allow scientists to develop a
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Determining raccine.	the genome of the viruses could allow scientists to develop a
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Determining accine.	the genome of the viruses could allow scientists to develop a
Determining vaccine. Explain how.	the genome of the viruses could allow scientists to develop a

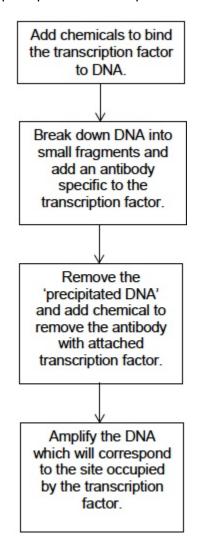
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as B lymphocytes of a human.

	(Total
What is meant by a genome?	

(b)

Chromatin immunoprecipitation is one method to determine where a transcription factor binds to DNA. The principle behind this procedure is shown in the chart.



Explain why the antibody binds to the transcription factor.	

(2)

(c)	Use the chart to explain what 'precipitated DNA' consists of.	
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		(1)