

0 9

Figure 12 shows a ring-tailed lemur.

Figure 12



Table 5 shows part of the classification of the ring-tailed lemur.

Table 5

Classification group	Name
Kingdom	<i>Animalia</i>
Phylum	<i>Chordata</i>
	<i>Mammalia</i>
	<i>Primates</i>
	<i>Lemuroidea</i>
Genus	<i>Lemur</i>
	<i>catta</i>

0 9 . 1

Complete Table 5 to give the names of the missing classification groups.

[2 marks]

0 9 . 2

Give the binomial name of the ring-tailed lemur.

Use information from Table 5.

[1 mark]

Turn over ►



Lemurs are only found on the island of Madagascar.

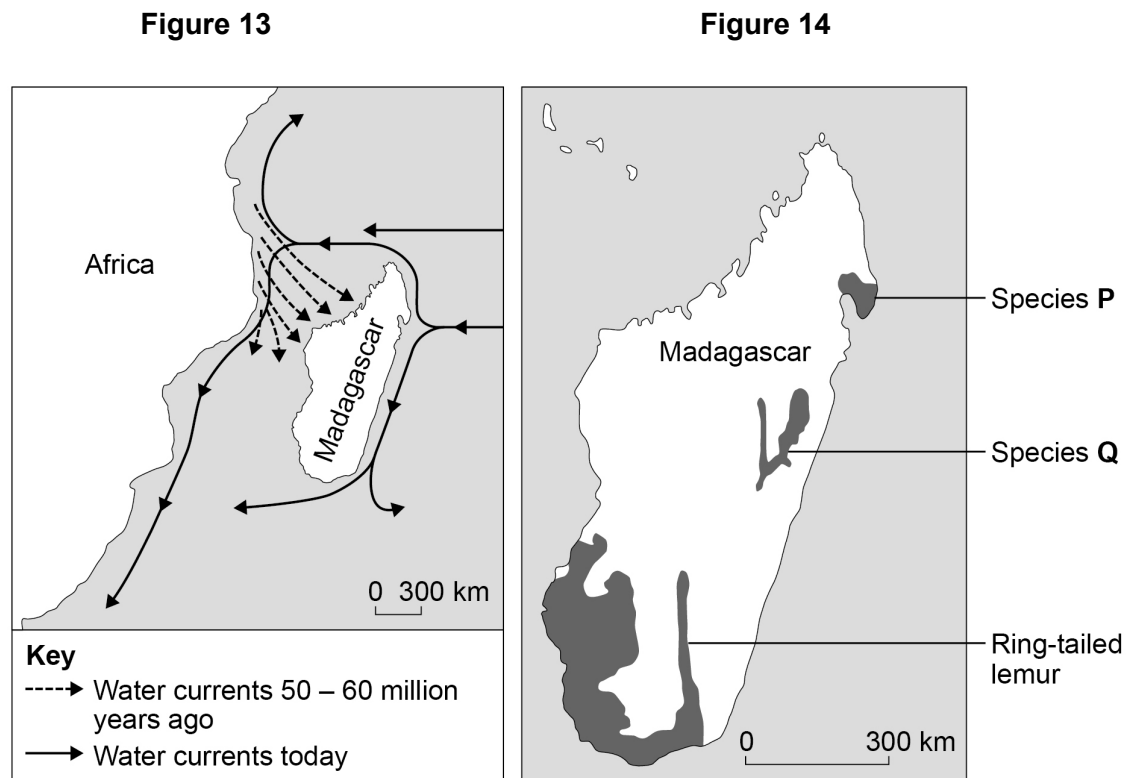
Madagascar is off the coast of Africa.

Scientists think that ancestors of modern lemurs evolved in Africa and reached Madagascar about 50-60 million years ago.

Today there are many species of lemur living on Madagascar.

Figure 13 shows information about water currents.

Figure 14 shows the distribution of three species of lemur on Madagascar.



0 9 . 3

Suggest how ancestors of modern lemurs reached Madagascar.

[1 mark]



Question	Answers	Extra information	Mark	AO / Spec. Ref.										
09.1	<table border="1"> <thead> <tr> <th>Classification group</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>Class</td> <td><i>Mammalia</i></td> </tr> <tr> <td>Order</td> <td><i>Primates</i></td> </tr> <tr> <td>Family</td> <td><i>Lemuroidea</i></td> </tr> <tr> <td>Species</td> <td><i>catta</i></td> </tr> </tbody> </table>	Classification group	Name	Class	<i>Mammalia</i>	Order	<i>Primates</i>	Family	<i>Lemuroidea</i>	Species	<i>catta</i>	all 4 correct = 2 marks 2 or 3 correct = 1 mark 0 or 1 correct = 0 marks	2	AO1 4.6.4
Classification group	Name													
Class	<i>Mammalia</i>													
Order	<i>Primates</i>													
Family	<i>Lemuroidea</i>													
Species	<i>catta</i>													
09.2	Lemur catta	ignore capitalisation / non-capitalisation of initial letters ignore italics / non-italics ignore underlining / non-underlining	1	AO2 4.6.4										
09.3	carried by (favourable) currents on masses of vegetation	allow description of currents from Figure 13 ignore swimming	1	AO2 4.6.3.2										

Question	Answers	Extra information	Mark	AO / Spec. Ref.
09.4	isolation of different populations		1	AO2 4.6.3.2
	habitat variation between lemur populations	allow examples – biotic (eg food / predators) or abiotic (eg temperature)	1	AO1 4.6.2.2 4.7.1.4
	genetic variation or mutation (in each population)		1	AO1 4.6.2.1 4.6.2.2 4.6.3.1 4.7.1.4
	better adapted survive (reproduce) and pass on (favourable) allele(s) to offspring	allow natural selection or survival of the fittest and pass on (favourable) allele(s) to offspring allow gene(s) / mutation as an alternative to allele(s)	1	AO1 4.6.2.2 4.6.3.1 4.7.1.1
	(eventually) cannot produce fertile offspring with other populations	allow cannot reproduce 'successfully' with other populations ignore cannot reproduce unqualified	1	AO1 4.6.3.1 4.6.2.2
Total			9	