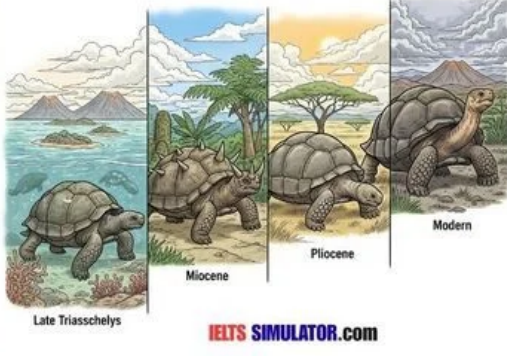


IELTS READING – THE HISTORY OF THE TORTOISE S45AT3



IELTS Reading THE HISTORY OF THE TORTOISE reading practice test has 10 questions..

If you go back far enough, everything lived in the sea. At various points in evolutionary history, enterprising individuals within many different animal groups moved out onto the land, sometimes even to the most parched deserts, taking their own private seawater with them in blood and cellular fluids. In addition to the reptiles, birds, mammals and insects which we see all around us, other groups that have succeeded out of water include scorpions, snails, crustaceans such as woodlice and land crabs, millipedes and centipedes, spiders and various worms. And we mustn't forget the **q27 plants**, without whose prior invasion of the land none of the other migrations could have happened.

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Questions 27-30

Answer the questions below

Choose **NO MORE THAN TWO WORDS** from the passage for each answer

Type your answers in boxes 27-30 below.

27 What had to transfer from sea to land before any animals could migrate?

Questions 28-29

Which **TWO** processes are mentioned as those in which animals had to make big changes as they moved onto land?

28

29

30 Which physical feature, possessed by their ancestors, do whales lack?

Moving from water to land involved a major redesign of every aspect of life, including **q28&29 breathing and reproduction**. Nevertheless, a good number of thoroughgoing land animals later turned around, abandoned their hard-earned terrestrial re-tooling, and returned to the Water Seals have only gone part way back. They show us what the intermediates might have been like, on the way to extreme cases such as whales and dugongs. Whales (including the small whales we call dolphins) and dugongs, with their close cousins the manatees, ceased to be land creatures altogether and reverted to the full marine habits of their remote ancestors. They don't even come ashore to breed. They do, however, still breathe air, having never developed anything equivalent to the **q30 gills** of their earlier marine incarnation. Turtles went back to the sea a very long time ago and, like all vertebrate returnees to the water, they breathe air. However, they are, in one respect, less fully given back to the water than whales or dugongs, for turtles still lay their eggs on beaches.

Questions 31-33

Do the following statements agree with the information given in Passage?

In boxes 31-33 below, choose

- TRUE** if the statement agrees with the information
FALSE if the statement contradicts the information
NOT GIVEN if there is no information on this more than once.

31 Turtles were among the first group of animals to migrate back to the sea.

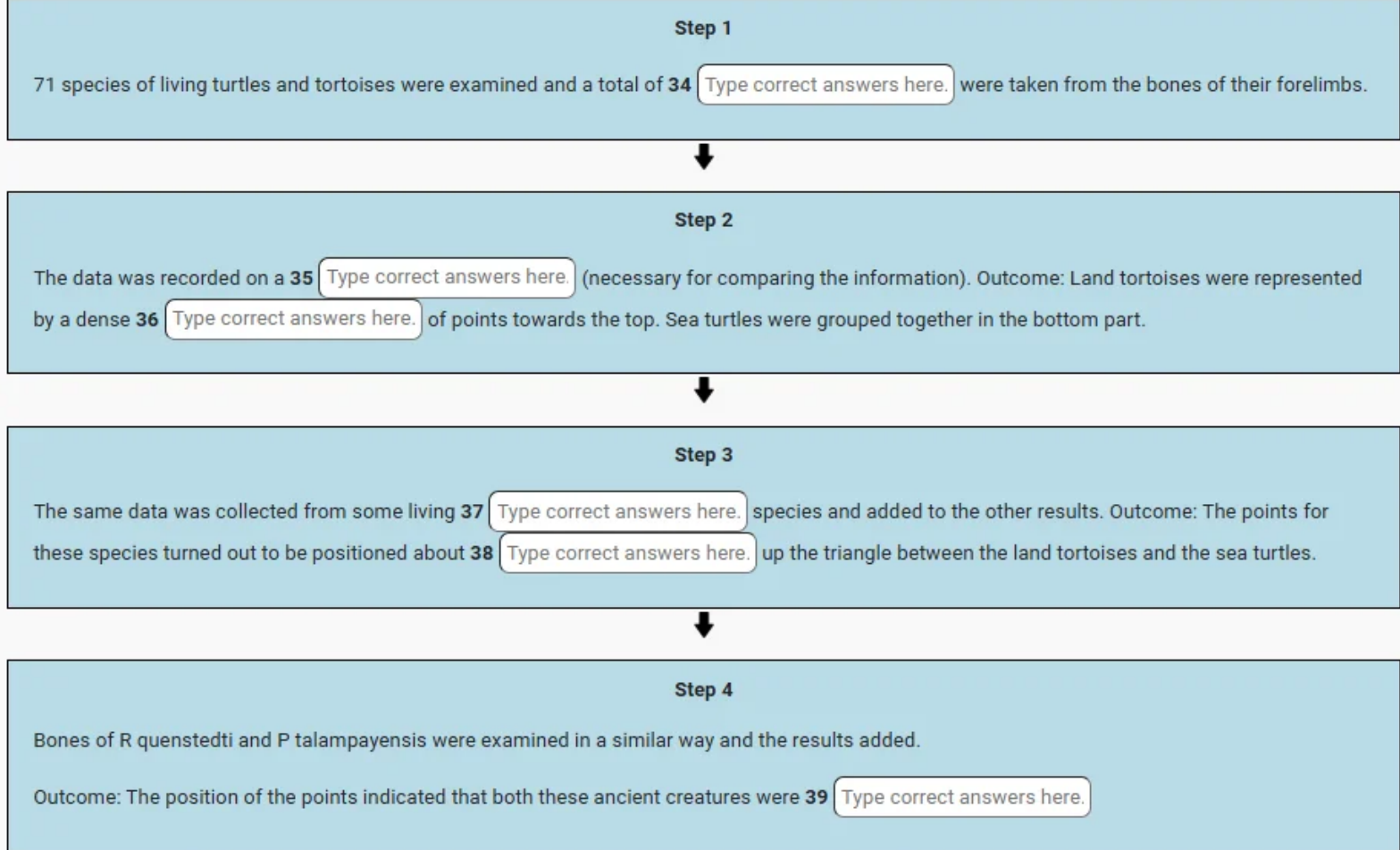
32 It is always difficult to determine where an animal lived when its fossilized remains are incomplete.

33 The habitat of ichthyosaurs can be determined by the appearance of their fossilized remains.

There is evidence that all modern turtles are descended from a terrestrial ancestor which lived before most of the dinosaurs. There are two key fossils called Progaiochelys quenstedti and Palaeochersis talampayensis dating from early dinosaur times, which appear to be close to the ancestry of all modern turtles and tortoises. **q32 You might wonder how we can tell whether fossil animals lived on land or in water, especially if only fragments are found.** Sometimes it's obvious. **q33 Ichthyosaurs were reptilian contemporaries of the dinosaurs, with fins and streamlined bodies. The fossils look like dolphins** and they surely lived like dolphins, in the water. With turtles it is a little less obvious. One way to tell is by measuring the bones of their forelimbs.

Type your answers in boxes 34-39 below.

Method of determining where the ancestors of turtles and tortoises come from



Walter Joyce and Jacques Gauthier, at Yale University, obtained **q34 three measurements** in these particular bones of 71 species of living turtles and tortoises. They used a kind of **q35 triangular graph** paper to plot the three measurements against one another. All the land tortoise species formed a tight **q36 cluster** of points in the upper part of the triangle; all the water turtles cluster in the lower part of the triangular graph. There was no overlap, except when they added some species that spend time both in water and on land. Sure enough, these **q37 amphibious** species show up on the triangular graph approximately **q38 half way** between the 'wet cluster' of sea turtles and the 'dry cluster' of land tortoises. The next step was to determine where the fossil fell. The bones of P. quenstedti and P. talampayensis leave us in no doubt. Their points on the graph are right in the thick of the dry cluster. Both these fossils were **q39 dry-land tortoises**. They come from the era before our turtles returned to the water.

Questions 40

Choose the correct letter **A, B, C or D**.

Choose the correct letter in box 40 below.

According to the writer, the most significant thing about tortoises is that

- ☐ **A** they are able to adapt to life in extremely dry environments.
☐ **B** their original life form was a kind of primeval bacteria,
☐ **C** they have so much in common with sea turtles.
☐ **D** they have made the transition from sea to land more than once.

You might think, therefore, that modern land tortoises have probably stayed on land ever since those early terrestrial times, as most mammals did after a few of them went back to the sea. But apparently not. If you draw out the family tree of all modern turtles and tortoises, nearly all the branches are aquatic. Today's land tortoises constitute a single branch, deeply nested among branches consisting of aquatic turtles. This suggests that modern land tortoises have not stayed on land continuously since the time of P. quenstedti and P. talampayensis. Rather, their ancestors were among those who went back to the water, and they then re-emerged back onto the land in (relatively) more recent times.

Tortoises therefore represent a remarkable double return. In common with all mammals, reptiles, and birds, their remote ancestors were marine fish and before that various more or less worm-like creatures stretching back, still in the sea, to the primeval bacteria. Later ancestors lived on land and stayed there for a very large number of generations. Later ancestors still evolved back into the water and became sea turtles. And finally, they returned yet again to the land as tortoises, some of which now live in the driest of deserts.

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