

Circle just the letter of the one best answer

1. Which is FALSE about *Homo heidelbergensis* (Archaic *Homo sapiens*)?

- A. they lived from about 500,000 years ago or more to about 300,000 years ago.
- B. they're named after the jaw found in Germany a century ago
- C. They have a brain size of about 800 cc, within the modern human range of variation
- D. They hunted, made huts, and used fire
- E. They made stone tools by the Levallois method, and added wood parts to make composite tools
- F. They have a more rounded skull and higher forehead than *Homo erectus*

2. Which is FALSE about the Atapuerca region and the fossils discovered there?

- A. A fossil from Gran Dolina is the oldest, and the name *Homo antecessor* has been proposed for it
- B. The Pit of Bones site, *Sima de los Huesos*, contains over 30 individuals
- C. The Pit of Bones fossils are *Homo heidelbergensis*, who may be ancestral to the later Neandertals
- D. Atapuerca is in Spain
- E. The fossils have been dated to all be over two million years old

3. Which is FALSE about neandertals?

- A. They were first discovered by workmen in the Neander Valley in Germany in the 1850's
- B. Our concept of them as stupid, hunched-over brutes is due to a reconstruction by Marcellin Boule
- C. They lived only in Europe and the Near East between 250,000 years ago and 40,000 years ago
- D. Some people think they may have had a special fascination with Cave Bears
- E. They ate only vegetable food, no meat

4. Which is FALSE about neandertal burials?

- A. At Shanidar in the Near East, one person had been a blind crippled man
- b. Some individuals lived to old age, suggesting they were cared for
- c. Burials were with ceremonies, individuals laid out in a fetal position
- D. Many were buried with woven gold cloth and gold ornaments

5. It is difficult to date *Homo heidelbergensis* sites because:

- A. The earth had no volcanoes then
- B. There has only been erosion since then, no deposition of new sediments
- C. The Ice Age used up all the carbon
- D. They are too recent for potassium argon dating to work, and too old for carbon 14
- E. They ate all their dead

6. Why can't apes learn to speak English?

- A. They can learn to sign and to respond to English, but their brains and muscles and anatomy are not built to generate speech
- B. They do not have vocal chords
- C. Their larynx is too low in their throat
- D. They can learn to sign and to respond to English, but they can only learn to speak Chinese
- E. No one knows, we keep trying to teach them in the belief that they can learn

Quiz continues on the back

7. Which is TRUE about Carbon 14 dating?

- A. It is a relative aging method.
- B. Only volcanic rocks can be dated
- C. Since the half life of C14 is 5000 years, it has all decayed away in 10,000 years
- D. C14 is constantly being produced in the upper atmosphere
- E. C14 builds up in an animal or plant after it dies.

8a. Which is FALSE about Neandertal anatomy (compared to modern humans like yourself)?

- A. Neandertals have larger brow ridges
- B. Neandertals have thicker bones
- C. Neandertals have longer arms and legs
- D. Neandertals have bigger teeth
- E. Neandertals have larger faces
- E. Neandertals have larger brains

8b. Neandertal anatomy was the result of adaptation to:

- A. Oceanside living, with many foods from the sea.
- B. Living on mountaintops
- C. Living a strenuous life in the Ice Age cold
- D. Cannibalism
- E. A coarse vegetable diet: hard seeds, grains, etc.

9a. Which is TRUE about Upper Paleolithic people?

- A. They appear in Europe about 40,000 years ago, and Neandertals disappear within 10,000 years
- B. Upper Paleolithic people buried their dead, while Neandertals never did
- C. Upper Paleolithic people and Neandertals had similar art and personal adornment
- D. Neandertals had prominent chins, Upper Paleolithic people did not
- E. All of these are true

9b. Which was NOT part of Upper Paleolithic culture?

- A. Paintings on cave walls such as the large animals at Grotte Chauvet and Lascaux
- B. Necklaces of animal teeth; and shell beads
- C. Engraved animals on bone, wood, and ivory tools
- D. Venus figures of voluptuous, anonymous women
- E. Planting seeds for a bountiful harvest of crops.

10. we discussed three recent models of the origin of modern humans:

- A. **Milford Walpoff's MRE multiregional evolution (or regional continuity or gene flow)**
- B. **Chris Stringer's RAO Recent African Origin(or complete replacement)**
- C. **MOA, the compromise model (or partial replacement) of Templeton, Smith or Brauer**

Using the letters A, B, or C from above, which model does each statement refer to?

- ___ **human evolution** was a sequence of adaptive radiations, in which a new species evolved in only one region, and then spread out to the rest of the world, replacing other humans without interbreeding with them; it is in fact a model of cladogenesis and punctuated equilibrium
- ___ **in this, the most recent** model, there were many migrations out of Africa, but at least one out of Asia; one group of humans put together the right combination of genes and culture to be the first modern humans, and spread out from their place of origin; they interbred (hybridized) with all the people they encountered, but theirs became the predominant physical type and culture.
- ___ **human evolution was** a case of anagenesis, that is, all earlier humans gradually evolved together into modern *Homo sapiens*, aided by migrations and interbreedings

PRINT NAME _____ BONUS multiple choice question: All of these cultural traditions of the European Upper Paleolithic include punch blade tools and bone and antler tools; which one also includes Mousterian tools and is as old as the Aurignacian?

- A. Magdalenian
- B. Gravettian
- C. Solutrean
- D. Chatelperronian