

**1. Which is FALSE about the fossil called LUCY?**

- A. It is the 40% complete skeleton of one individual who was less than 4 feet tall
- B. She was a biped, but with long arms and long curved fingers and toes
- C. Lucy was given the species name *Paranthropus boisei*
- D. Lucy was discovered in Ethiopia in the 1970's by Don Johanson
- E. The canines are larger than yours
- F. The fossil was over 3 million years old

**2. Which is FALSE about 'primitive' Australopithecus?**

- A. They had a lot of sexual dimorphism – as much as gorillas
- B. They were not as tall as later Australopithecus
- C. 'Primitive' includes *Australopithecus afarensis* and *A. anamensis*
- D. They had shorter legs than later Australopithecus
- E. They are older than robust and gracile types
- F. 'Primitive' Australopithecus had brains twice as large as chimpanzees do today

**3. The discovery of this fossil in the 1980's led to the conclusion that Paranthropus was as old as the oldest gracile Australopithecus: they lived at the same time in east Africa.**

- A. Zinjanthropus
- B. Black Skull
- C. Homo habilis
- D. Lucy
- E. Ardipithecus

**4. At this site Mary Leakey found footprints of *Australopithecus afarensis*:**

- A. Laetoli
- B. Olduvai Gorge
- C. Hadar
- D. Koobi Fora
- E. Sterkfontein

**5. This refers to the Leakeys' first hominid discovery in 1959, a hyper-robust individual now generally classified as *Paranthropus boisei*:**

- A. Zinjanthropus
- B. Black Skull
- C. Homo habilis
- D. Lucy
- E. Ardipithecus

**6. The fossil in # 5 was found at this place:**

- A. Laetoli
- B. Olduvai Gorge
- C. Hadar
- D. Koobi Fora
- E. Sterkfontein

**7. The study of what happens to an animal from when it dies to when it is uncovered as a fossil, as well as the relationship between the numbers of fossils we find and the numbers of animals who actually lived in the past, is called:**

- A. Chronometric dating
- B. Palynology
- C. Taphonomy
- D. Stratigraphy
- E. Osteodontokeratic

**8. WHICH IS true?**

- A. K-Ar dating was used to date the caves in South Africa
- B. The half life of radioactive potassium is 1.3 billion years, so after 2.6 billion years it has all decayed away
- C. Relative dating gives dates in exact years
- D. Relative dating uses stratigraphy and cross dating
- E. K-Ar dating is used only for sedimentary rock, like limestone

**9. All of these fossils were found by members of the Leakey family except one; which one was NOT:**

- A. Zinjanthropus boisei
- B. Homo habilis
- C. Australopithecus anamensis
- D. Kenyanthropus platyops
- E. Ardipithecus kadabba

**10. For over two million years, Paranthropus lived alongside the gracile/Homo lineage; in that time both groups underwent a "parallel" evolution, that is they both evolved in the same direction because they were doing similar things in the same environment. They BOTH evolved:**

- A. Much larger brains (a doubling of cranial capacity)
- B. Larger body size, much longer legs, less sexual dimorphism
- C. Smaller body size, longer arms with curved fingers
- D. Huge molar teeth, large jaw muscles, a sagittal crest
- E. The ability to hunt and kill large game animals

PRINT FIRST NAME \_\_\_\_\_ Last Name \_\_\_\_\_

**BONUS QUESTION:** Tell me about "Kenyanthropus"; what is it, what does its finder suggest about its importance?