

**1. The meaning of "Creation Science" (or "Scientific Creationism") in the video we saw is:**

- A. The belief that God is responsible for the Big Bang 10 billion years ago.
- B. The knowledge gained from reading the Bible.
- C. Attempts to find scientific evidence that supports the hypothesis that the earth is about 10,000 years old.
- D. Any belief in a creation by a superior being.
- E. The modern theory of evolution based on Darwin and genetics.

**2. In the video we saw, the "human footprints" found with dinosaur prints turned out to be:**

- A. Real (so humans did walk with dinosaurs)
- B. fakes placed under water
- C. miracles
- D. 3-toed dinosaur prints with a deep heel impression
- E. prints of alien visitors from another planet

**3. In the 1920's, Tennessee schoolteacher Scopes was tried for teaching evolution; what happened?**

- A. He was convicted and teaching evolution continued to be illegal in many states for decades.
- B. He was found innocent, and evolution was then legal.
- C. The jury was deadlocked, so the US Supreme Court found Scopes innocent
- D. He was found innocent because he also taught strict Creationism, but all courts ruled then and now that creationism must be taught alongside evolution in public schools

**4. The fact that any attempt to crossbreed donkeys and horses results only in a sterile animal (called a mule) is proof that (in regard to these two animals):**

- A. Mendel was wrong about genetics.
- B. Darwin was wrong about evolution.
- C. Linnaeus was wrong about classification.
- D. they belong to the same species.
- E. they belong to two different species.
- F. mules are their common ancestors.

**5. The occurrence of sampling errors (founder effect, etc.) in gene pools is called:**

- a. random genetic drift
- b. gene flow
- c. gene pool
- d. gene frequency
- e. Mutation

**6. What is the type of cell division that produces four cells of 23 chromosomes from one cell of 46?**

- A. Mutation
- B. Mitosis
- C. Protein synthesis
- D. Replication
- E. Meiosis

**7. Which is FALSE about the Punctuated Equilibrium theory of Evolution?**

- A. It uses the same four causative factors: natural selection, mutation, gene flow, random genetic drift
- B. It suggests that evolution is not gradual and continuous, but stasis is punctuated by rapid change
- C. It suggests that most evolutionary change happens in small populations
- D. It suggests that natural selection is less important, but random genetic drift is more important
- E. It suggests that the idea of descent from a common ancestor is incorrect

**8. Reptiles differ from mammals in that reptiles:**

- A. Have a better sense of hearing
- B. Have smaller jaw muscles
- C. Nurse their young with nipples
- D. Are descended from early mammals

**9. Which is TRUE?**

- A. natural selection only occurs when the environment is changing
- B. dominant alleles are always more common in a gene pool
- C. recessive alleles are never expressed in an individual, even if he is homozygous
- D. genetically it is the mother that determines the sex of a child.
- E. Your adult height is a result of both genes and environment.

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**BONUS Q:** Natural selection and mutations can by themselves cause a species to gradually evolve into a new species (like our small island of rabbits last week); what third factor is necessary for one species to become more than one species (an adaptive radiation)? WHY?

