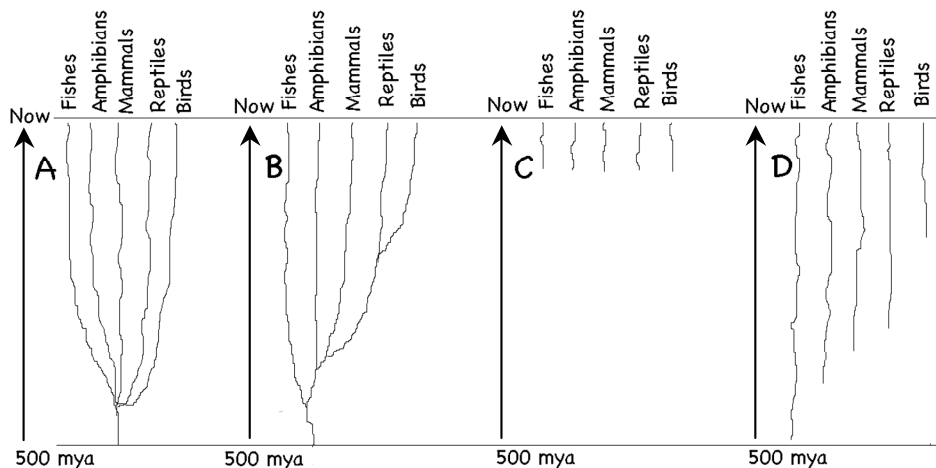


PATTERNS IN TIME: Check-Quiz (this will NOT affect your grade)

For each item below, **make your best guess**. Don't look at other papers for clues. What do **YOU** think the **BEST** answer might be? Keep your answers covered, and turn your **paper face down** when you are done.

- _____ 1. How high would a stack of 1 million dollar-bills be? (select choice closest to your guess)
- A) as high as this room
 - B) as high as a 2-story building
 - C) the length of a football field high
 - D) about 3 miles high
 - E) more than 3 miles high
- _____ 2. **When** did the different kinds of vertebrates (animals with backbones - like fishes and mammals) **first** appear? A) all at the same time;
B) all within a short period of time (days, months or years);
C) different times, spread out over millions of years.
- _____ 3. Were there any true mammals before the oldest (earliest) true mammal fossils? (yes or no)
- _____ 4. Were there any *modern* humans before the earliest human-like fossils (like Lucy)? (yes or no)
- _____ 5. We have found many fossils of **pre-mammals** that lived long before the earliest true mammals (for 100 million years). They became more and more mammal-like over those many millions of years. Which **origin-of-mammals** idea best fits that observation?
- A) mammals just popped into existence - no connection to previous animals
 - B) mammals formed directly from certain fishes
 - C) mammals formed directly from certain amphibians
 - D) mammals formed directly from certain pre-mammals
 - E) mammals formed directly from certain reptiles
- _____ 6. Which one of the following four **patterns over time** comes **closest** to showing what the **fossil record** tells us about the **history of vertebrate animals on Earth**? (mya = millions of years ago)



KEY (REMOVE BEFORE PRINTING QUIZ): 1. C; 2. C; 3. no; 4. no; 5. D; 6. B