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