

## Answer to iClicker Question #5A (Evolution 8)

Consider the hypothetical creatures on the last page of this handout. Which of the following is the most likely order of evolution for the creatures listed?

- A. (first) 6 8 3 2 (last) *This starts with the most complex creature and has it losing features; this is exactly backwards of our usual assumption.*
- B. (first) 2 (add lots of legs) 8 (lose many legs) 3 (gain eyes and legs) 6 (last) *This has several events where a feature is gained, lost, and re-gained - this is unlikely.*
- C. (first) 2 (add legs) 3 (add more legs and eyes) 6 (lose eyes) 8 (last)
- D. (first) 2 (add legs) 3 (add more legs) 8 (add eyes) 6 (last) *This adds features one by one. It is the most likely.*

## Answer to iClicker Question #5B (Evolution 8)

There are some general rules; in general (& there are exceptions!)

- the first life was bacteria
- life starts in water
- life colonizes land later
- plants reach land first

Using these (or the big history handout from Wednesday),

First

(B) First plants.

(A) First plants on land.

Last

(C) First animals on land.

So (4) is correct.