Sci 9 CYU p38 #1,4,5,7,9,10,11,13,14

1. Cells divide: Growth of the organism, Repair or replace dead/old/damaged tissue, Reproduce new individuals

4. Skin cells reproduce faster because they are constantly getting sloughed off and therefore need to be replaced more frequently.

5. Hair cells, cancer cells, stomach lining

7. a) repair bone, b) skinks may lose their tail to predators and grow it back c)bacteria divide quickly to reproduce d) a puppy produces more cells so it can grow bigger

9. Skin would divide faster than muscle cells because it is exposed to the environment and more likely to get injured or rubbed off.

10. Nervous tissue (brain cells) generally does not divide, once they are gone they do not regenerate. That’s why damage to brain or spinal cord is permanent. Red blood cells also do not divide, they do not have a nucleus.

11. Cells need to stay small in order for nutrients to diffuse in and wastes out through the membrane in a timely fashion.

13. yeast and bacteria reproduce through cell division

14.