

1. Give three reasons why cells divide.
2. Explain how cell division is responsible for growth.
3. Why might scientists want to figure out a way to promote cell division in mature nerve cells?
4. Why do skin cells reproduce faster than other types of cells?
5. Give a location, other than human skin, where cells might reproduce quickly.
6. What evidence is there that all cells in your body do not reproduce at the same rate?
7. Examine the photographs in Figure 5. What function of cell division is shown in each photograph?

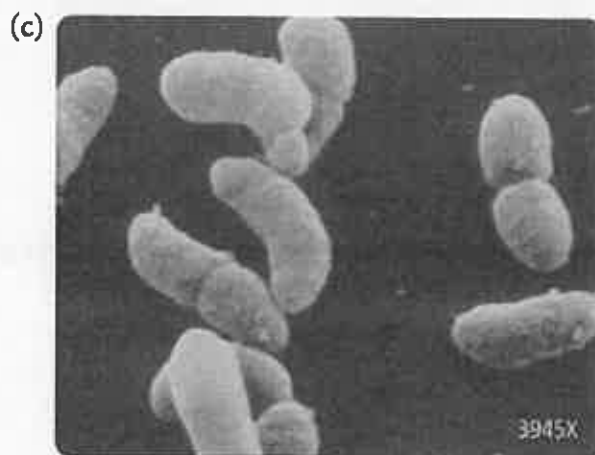


Figure 5

8. Doctors once transfused blood from young people into elderly people, believing that the younger blood would provide the elderly people with more energy. Do elderly people actually have older blood? Explain your answer.
9. Why do you think skin cells divide faster than muscle cells?
10. Do all cells undergo cell division? Give an example of cells that do not.
11. Explain why cells can only grow to a limited size.
12. Do larger organisms have larger cells? Explain.
13. List two organisms that use cell division to reproduce.
14. A colony of bacteria has 12 cells. Assuming that each cell divides and no cells die, how many cells would there be after six divisions?