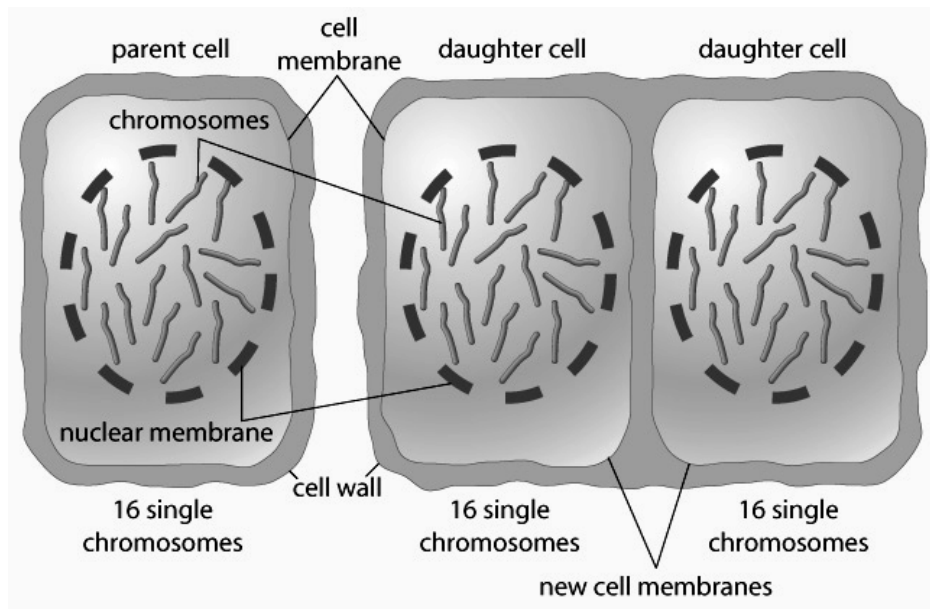


Purpose: How are these new, genetically identical cells produced?



Procedure

1. The diagrams show onion root-tip cells before and after the cells have divided to form new cells. The tip of an onion root-tip is an active growing region. The cells in this region are actively dividing to produce new cells.
2. Study the diagrams. Compare the number and characteristics of the chromosomes in the parent cell to the number of chromosomes in the two daughter cells.

Analysis

1. What do you notice about the number of chromosomes in the parent cell compared to the number of chromosomes in the two daughter cells?
2. What do you notice about the characteristics of each chromosome in the three cells?

