

## CHECK YOUR LEARNING

### Suggested Answers

1. The cell is the simplest unit of life. All life forms are made of cells. All cells come from other cells.
  2. My cells are eukaryotic. Human cells are eukaryotic because they contain a nucleus and membrane-bound organelles.
  3. The most obvious difference is that eukaryotic cells have membrane-bound organelles and nucleus.
  4. DNA in the nucleus contains codes to create proteins that perform functions for the cell. DNA also controls cell activities.
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5. You need oxygen to burn sugar for energy. During exercise, mitochondria in muscle cells work harder to produce energy and need more oxygen to turn sugar into energy. The demand for more oxygen makes you breathe harder and faster.
  6. If a plant cell does not contain chloroplasts, it may be a cell that does not carry out photosynthesis.
  7. The function of the cell wall is to provide structure and protection for the cell.
  8. Plant cells need mitochondria to release energy from the sugar that they make.