

# We're curious about cells!

## Fact or Fiction

Guess if each statement is fact or fiction. After you've guessed an answer, search some sources on the Internet to determine if the statements are actually fact or fiction. Write a brief summary of your findings underneath each statement in section 2.

**Section 1: For each of the following statements, GUESS if they are fact or fiction. Circle the answer; you don't have to show any work.**

1. **Fact or Fiction:** Humans gain weight from fat cells increasing in number.
2. **Fact or Fiction:** Living cells can only come from pre-existing cells.
3. **Fact or Fiction:** We have cells in our bones called osteoclasts that degrade your bones.
4. **Fact or Fiction:** All neurons are the same shape and size.
5. **Fact or Fiction:** Plant and animal cells have all of the same organelles.
6. **Fact or Fiction:** Most cells are made of about 70% water.
7. **Fact or Fiction:** Red blood cells carry oxygen to cells and tissues in exchange for carbon dioxide.
8. **Fact or Fiction:** All cells have their DNA inside of a nucleus.
9. **Fact or Fiction:** Regular cells undergo programmed cell death (apoptosis), but cancer cells are able to avoid apoptosis and continue to grow and divide.
10. **Fact or Fiction:** Humans only have about 50 different cell types.
11. **Fact or Fiction:** Scientist believe that before the mitochondria was an organelle in eukaryotic cells, it was an ancient bacterium.

**Section 2: For each of the following statements, search for sources on the Internet to determine if they are fact or fiction. Write Fact or Fiction on the line provided and underneath each question, summarize what you found during your searches.**

1. \_\_\_\_\_ Humans gain weight from fat cells increasing in number.
2. \_\_\_\_\_ Living cells can only come from pre-existing cells.
3. \_\_\_\_\_ We have cells in our bones called osteoclasts that degrade your bones.
4. \_\_\_\_\_ All neurons are the same shape and size.
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9. \_\_\_\_\_ Regular cells undergo programmed cell death (apoptosis), but cancer cells are able to avoid apoptosis and continue to grow and divide.
10. \_\_\_\_\_ Humans only have about 50 different cell types.
11. \_\_\_\_\_ Scientist believe that before the mitochondria was an organelle in eukaryotic cells, it was an ancient bacterium.