***Cloning Web Quest***

Learn Genetics at <http://learn.genetics.utah.edu/content/tech/cloning/>

1. Go to “What is Cloning” and answer the following questions:

Define Cloning \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Answer True (T) or False (F) to the following statements

a) \_\_\_\_\_\_Clones are exact genetic copies of the original
b) \_\_\_\_\_\_All clones must be created in a laboratory.
c) \_\_\_\_\_\_To create artificial twins, two embryos are fused together.
d) \_\_\_\_\_\_To make Dolly, scientists transferred the nucleus of a somatic cell to an egg cell.
e) \_\_\_\_\_\_The nucleus is like the brain of the cell.
f) \_\_\_\_\_\_\_An egg is a type of somatic cell.
g) \_\_\_\_\_\_\_A surrogate mother was needed to create Dolly.

2. Go to “Click and Clone” and place the following steps in the correct order
\_\_\_\_\_\_\_\_Stimulate cell division
\_\_\_\_\_\_\_\_ Deliver baby
\_\_\_\_\_\_\_\_ Remove and discard the nucleus from the egg cell
\_\_\_\_\_\_\_\_ Isolate donor cells from egg donor and germ cell donor
\_\_\_\_\_\_\_\_ Transfer the somatic cell nucleus into the egg cell
\_\_\_\_\_\_\_\_ Implant embryo into a surrogate mother
What color will the cloned mouse be? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the name of this mouse? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Go to “Why Clone”. List the four main uses of cloning. Now, rank them In order of which you think is the most beneficial to humans. 1 is most beneficial, 4 is the least beneficial.