



knowledge quiz

Genetics

Name _____

1. Genes are part of chromosomes. Chromosomes are found
 - A. only in egg and sperm cells.
 - B. in most every cell of an organism.
 - C. only in cells that are dividing or involved in fertilization.
 - D. only in the cells of a growing embryo.
2. DNA has a shape called a double helix. The best representation of a single helix is
 - A. a straw.
 - B. a wire screen.
 - C. a Slinky toy.
 - D. a ladder.
3. Which of these statements about identical twins is true?
 - A. They could have different fathers.
 - B. They have slightly different genes from one another.
 - C. They come from eggs fertilized one right after the other.
 - D. None of the above is true.
4. The Human Genome Project will make it possible to
 - A. identify genes that are responsible for hereditary diseases.
 - B. clone inanimate objects.
 - C. clone humans.
 - D. rid the world of all diseases.
5. Chromosomes determine a person's
 - A. exact age.
 - B. weight.
 - C. sex.
 - D. none of the above



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6. Which of these would be identical in a pair of identical twins?
 - A. their fingerprints
 - B. their genes
 - C. their weight
 - D. their taste in music

7. On what did Austrian botanist and monk Gregor Mendel base his basic laws of inheritance?
 - A. the reproduction patterns of peas
 - B. siblings
 - C. the growth patterns of corn
 - D. animals

8. Why might a certain type of insect be able to resist a new insecticide?
 - A. It has tasted the insecticide before and like it.
 - B. It can fly away quickly.
 - C. It has inherited a genetic variant for resisting the new pesticide.
 - D. None of the above are true.

9. What is the benefit of having a genetically altered potato?
 - A. It can grow with very little sunshine.
 - B. Its DNA can fight off fungi that could wipe out entire crops.
 - C. It improves the flavor and look of a potato.
 - D. Both B and C are true.

10. Which of the following can be cloned?
 - A. animals
 - B. fungi
 - C. plants
 - D. all of the above