

14. Why are males more likely to have a sex-linked disease than females? **Sex-linked diseases are almost always carried on the X chromosome. Females have two X chromosomes, so even if she does inherit one defective X chromosome from one parent, it's unlikely the other X chromosome she inherits from the other parent will have the same defective gene. If she only has one sex-linked gene that is defective, the normal sex-linked gene on the other X chromosome will counteract it. Males only have one X chromosome, always inherited from the mother. If that one X chromosome has a defective gene, there is no normal gene to counteract it on the Y chromosome, so males are much more likely to have a sex-linked genetic disease.**
15. True or False? A female is considered a carrier if she has a defective sex-linked gene but does not have the disease for which it codes. **True.**
16. **True or False? Duchenne muscular dystrophy is caused by a sex-linked gene that causes all muscles to become small and weak. True.**
17. How many defective alleles does a person need to have in order to have an autosomal **recessive** genetic disease? **Two—both alleles that code for the same protein need to be defective.**
18. True or False? Genes are altered and made abnormal due to infections. **False. Mutations cause defective genes.**
19. Down syndrome is a type of what genetic disease? **A chromosomal genetic disease. A person with Down syndrome has three chromosome number 21 instead of two.**
20. True or False? Selective breeding is an example of genetic engineering. **True.**
21. Can an organism be given a trait it does not have? **Yes, that is the basis of genetic engineering—figuring out a way to insert a gene into something and give it a trait it does not have.**
22. True or False? Evolutionists believe that life is on this planet for a reason and creationists believe life exists here by events that occurred through random chance. **False. Evolution is the belief that life arose on the planet through random events. Creation is the belief that life originated through the specific creation by God and that all life has a purpose.**
23. True or False? Evolution would likely be an atheist's way of describing how life originated on earth. **True.**
24. True or False? Charles Darwin is considered the father of evolution. **True.**
25. True or False? The evolution model states that the first life-form was single-celled structure, such as a prokaryote, which assembled into a cell randomly. **True.**
26. True or False? The evolution model proposes that the earth is billions of years old. **True.**
27. True or False? There is no scientific proof that neo-Darwinism is true, which is why there are a lot of evolutionary scientists who don't believe it. **True.**
28. How do evolutionists propose that less-complex organisms acquire new information-adding genes that provide never-before-in-existence traits? **By mutation.**
29. Why is it a mistake for the evolution model to use the blind cavefish as an example of evolution in action? **Evolution is specifically a biological process where a less-complex organism develops new, never-before-in-existence traits and transforms into a new and never-before-in-existence kind of organism. However, before the cavefish lost its eyes, it was a fish and after it lost its eyes it's a fish. There is nothing new, In fact, it LOST a characteristic—its eyes—it didn't gain anything when it became the blind cavefish.**
30. **True.**