**Try This #13**

For the following set of DNA:

TACACCGCAGCTATT

1. Transcribe the mRNA

AUG UGG CGU CGA UAA

1. Translate the amino acids

Methionine, tryptophan, arginine, arginine, stop

1. If the first C is changed to a T – what type of mutation is that? And what happens to the resulting protein?

Methionine, leucine, arginine, arginine, stop

1. Which is worse a deletion or substitution and why?

* deletion is worse because all of the amino acids that follow will be different = frameshift