Genes and Chromosomes

1.	Chromosomes are long lengths of	, with alo	ng them. A $_$	is a	
	factor made up of a	of DNA that influences a cert	tain	It occupies a	
	specific location on a chromosome, c	alled a The e	ntire	_ sequence of the human	
	was sequenced in the		project.		
2.	The size diff	ers across species. This is the	total	of all the DNA in an	
	organism measured in the number of millions of (b.p).				
	Organism (scientific name)	Organism (common nam	e)	Size (millions of b.p)	
		phage			
	E				
	D. melanogaster				
	H. sapiens				
	P. japonica				
3.	The number of is not the same in all eukaryotic organism. Complete the table:				
	Organism (scientific name)	Organism (common nam	e)	Number of genes	
	P				
4.	The various forms of	are called	They differ by	v only a few	
٠	New ones can be formed by		·,	. ,	

5.	anemia arose d	ue to a base	·	This	
	causes the amino acid to ch	nange from	to	This	
	impacts the 3D shape of the hemoglobin _				
5 .	. Complete the schematic showing how this mutation impacts an individual when the is expressed.				
		Normal Hemoglobin	anei	mia	
	DNA			_	
	mRNA			_	
	Amino acid				