

## Exam 1 Worksheet

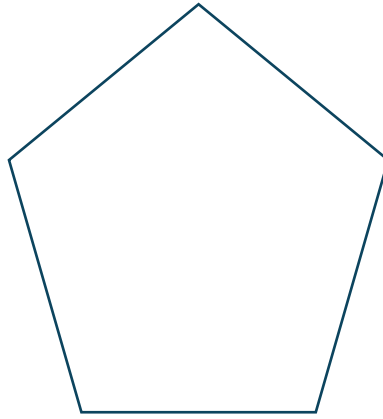
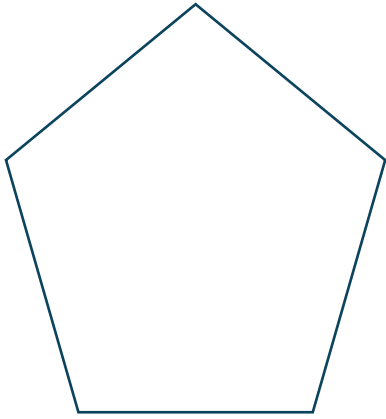
Brain dump: Evolution and the origin of species

Brain dump: Mendel and his pea plants

Describe the theory of chromosomal inheritance. How many chromosomes do humans have? What is diploid and haploid?

If a horse has 15% composition of cytosine in its DNA, what is the composition of all other bases?

Draw DNA and RNA:



What is the central dogma of biology? Proteins are the\_\_\_

Give the following species their scientific names

Pea plants:

Fruit fly:

Mouse:

To serve as genetic material, what 4 things must it be able to do?

Brain dump: The 4 important scientist we have talked about for this exam

Describe the semiconservative model of replication:

How long can human chromosomes stretch out? How wide is the human nucleus?

Draw an octomere and label it with all the histone proteins:

Describe what chromatin remodeling is and why histone tails are important for it.