

2.Man is not just dark or fair:

Nor tall or short.

Differences between discontinuous and continuous variations

Discontinuous variation	continuous variation
Deals with a few clear-cut variations of a trait	Deals with a spectrum of variations of a trait, ranging from one extreme to the other.
Controlled by few genes	Controlled by many genes
Genes do not show additive effects	genes show additive effects,e.g the more "dark" genes,the darker the skin colour will be.
Not affected by environmental changes	Modified by environmental conditions , e.g. greater exposure of the skin to sunlight will produce a darker skin colour.

Advantages of variation

When there is variation in a population of organisms, the survival advantage is increased as the organisms are more resistant to changes in the environment. A population of organisms can be wiped out by environmental conditions,diseases,competition and parasitism.in addition, natural selection acts on variations in a species of organisms so that the organisms that can adapt to the condition of the environment will survive and reproduce to pass on the favourable traits to the next generation.