Question 21 (2 marks)

Gregor Mendel and Thomas Morgan both used breeding experiments to deduce fundamental principles of genetics.

Complete the four blank boxes in the table.

	Mendel's Monohybrid Cross			Morgan's Fruit Fly Experiments	
First Cross Parents Phenotype		tall ×	short	red eyed white eyed female male	
First Cross (F ₁) Parents Genotype	TT x ++			X ^R X ^R × X ^r Y	
First Cross Punnet Square	t t			X" Y	
	Т	Tt	Tt	Xx Xx XX	
	т	Tt	Tt	Xx Xx XX	
F ₁ Phenotype		77	r.	Xsex XIs	