0 1	Gregor Mendel was a monk who studied inheritance in thousands of pea plants Pea plants can produce either yellow pea seeds or green pea seeds. Mendel crossed plants that always produced yellow pea seeds with plants that	
	always produced green pea seeds.	
	He found that all the seeds produced from the cross were yellow pea seeds.	
	Use the symbol ${\bf D}$ to represent the dominant allele and ${\bf d}$ to represent the recessive allele.	
0 1 . 1	Which alleles did the seeds from the cross have? [1 ma	rk]
	Mendel grew hundreds of plants from the seeds of the offspring. He crossed the plants with each other. Mendel's crosses produced 5496 yellow pea seeds and 1832 green pea seeds.	
0 1 . 2	Explain why Mendel's crosses gave him these results.	
	In your answer you should use:	
	* a genetic diagram * the symbols D and d [3 mark	ks]
0 1 . 3	One of Mendel's crosses produced 18 yellow pea seeds and 15 green pea se These numbers do not match the expected ratio of yellow and green seeds. Suggest why	eds.
0 1 . 4	The importance of Mendel's discovery was not recognised until many years at his death. Give one reason why.	fter