their sto	res is 0.14kg.		
	ples is less than	ring season, the head of quality control believes that the mean mass of n 0.14 kg and she decides to carry out a hypothesis test at the 5% level of	
mass, in		sample of this variety of apple from the supermarket chain and records the sple. She uses software to analyse the data. The results are summarised in	
n	80	-	
Mean	0.1316		
σ	0.0198		
s	0.0199		
Σχ	10.525		
Σx^2	1.4161		
Min	0.1		
Q1	0.12		
Median			
Q3	0.1435		
Max	0.19		
,	te the null hypo	othesis and the alternative hypothesis for the test, defining the parameter	[2]
450	. .		r_1
(b) Wr	ite down the di	stribution of the sample mean for this hypothesis test.	[2]
(c) Det	termine the crit	tical region for the test.	[2]

[3]

(d) Carry out the test, giving your conclusion in context.

13 A large supermarket chain advertises that the mean mass of apples of a certain variety on sale in