be damp. A random sample of 35 bags of sugar is taken from supplier A. (a) Using a suitable model, find the probability that the number of bags of sugar that are damp is (i) exactly 2 (ii) more than 3 (3) Supplier B claims that when it supplies bags of sugar, the proportion of bags that are

2. A manufacturer of sweets knows that 8% of the bags of sugar delivered from supplier A will

damp is less than 8%

The manufacturer takes a random sample of 70 bags of sugar from supplier B and finds

that only 2 of the bags are damp.

(b) Carry out a suitable test to assess supplier B's claim. You should state your hypotheses clearly and use a 10% level of significance.

**(4)**