

**13** In a report published in October 2021 it is stated that 37% of adults in the United Kingdom never exercise or play sport. A researcher believes that the true percentage is less than this. They decide to carry out a hypothesis test at the 5% level to investigate the claim.

**(a)** State the null and alternative hypotheses for their test. **[1]**

**(b)** Define the parameter for their test. **[1]**

In a random sample of 118 adults, they find that 35 of them never exercise or play sport.

**(c)** Carry out the test. **[4]**