

- 13** Records from the 1950s showed that 35% of human babies were born without wisdom teeth. It is believed that as part of the evolutionary process more babies are now born without wisdom teeth. In a random sample of 140 babies, collected in 2020, a researcher found that 61 were born without wisdom teeth.

The researcher made the following statement.

“This shows that the percentage of babies born without wisdom teeth has increased from 35%.”

**(a)** Explain whether this statement can be fully justified. **[1]**

**(b)** Conduct a hypothesis test at the 5% level to determine whether there is any evidence to suggest that more than 35% of babies are now born without wisdom teeth. **[7]**