

**Edexcel (U.K.) Pre 2017**

**Questions By Topic**

**S2 Chap07 Hypothesis Testing**

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6. (a) Explain what you understand by a hypothesis. (1)

(b) Explain what you understand by a critical region. (2)

Mrs George claims that 45% of voters would vote for her.

In an opinion poll of 20 randomly selected voters it was found that 5 would vote for her.

(c) Test at the 5% level of significance whether or not the opinion poll provides evidence to support Mrs George's claim. (4)

In a second opinion poll of  $n$  randomly selected people it was found that no one would vote for Mrs George.

(d) Using a 1% level of significance, find the smallest value of  $n$  for which the hypothesis  $H_0 : p = 0.45$  will be rejected in favour of  $H_1 : p < 0.45$  (3)

Horizontal lines for writing answers.





























