**2.** Bea believes that 20% of letters are sent by 1st class post.
Marco claims that less than 20% of letters are sent by 1st class post.

Marco and Bea decide to carry out an appropriate hypothesis test using a
5% significance level.

(a) Write down appropriate null and alternative hypotheses for their test.

**(1)**

Marco and Bea take a random selection of 25 letters and find that 1 letter was sent by
1st class post.

(b) (i) Showing your working, find the critical region for their test.

    (ii) State the conclusion of their test.

**(4)**