

**12** The table shows information for England and Wales, taken from the UK 2011 census.

Total population	Number of children aged 5-17
56 075 912	8 473 617

A random sample of 10 000 people in another country was chosen in 2011, and the number,  $m$ , of children aged 5-17 was noted.

It was found that there was evidence at the 2.5% level that the proportion of children aged 5-17 in the same year was higher than in the UK.

Unfortunately, when the results were recorded the value of  $m$  was omitted.

Use an appropriate normal distribution to find an estimate of the smallest possible value of  $m$ . **[5]**