

- 5** The lengths of videos of a certain popular song have a normal distribution with mean 3.9 minutes. 18% of these videos last for longer than 4.2 minutes.

**(i)** Find the standard deviation of the lengths of these videos.

[3]

[illegible]

(ii) Find the probability that the length of a randomly chosen video differs from the mean by less than half a minute. [4]

[4]

[illegible]

