The populations of Dogstown and Catsville were equal at the end of 2015. The population of Dogstown decreased by 3.2\% during 2016, then increased by 8.1\% during 2017. The population of Catsville increased by 2\% during 2016, then increased by \( r \)% during 2017.

If the populations of the towns were equal again at the end of 2017, determine the value of \( r \) correct to one decimal place.