A large number of athletes are taking part in a competition. The masses, in kg, of a random sample of 7 athletes are as follows.

$$98.1 \qquad 105.0 \qquad 92.2 \qquad 89.8 \qquad 99.9 \qquad 95.4 \qquad 101.2$$

Assuming that masses are normally distributed, test, at the 10% significance level, whether the mean mass of athletes in this competition is equal to 94 kg. [7]