

- 10** A track cycling competition consists of a 4.0 km race and a one hour record race. Cyclists move around a circular track with a circumference of 1.00 km.

In the 4.0 km race, the top cyclist finishes the race in 4 mins and 1.934 s. In a one hour record race, the top cyclist travelled a distance of 55.089 km in one hour.

What is the difference between the angular speed of these top cyclists of each race?

- A** 0.0012 rad s<sup>-1</sup>   **B** 0.0077 rad s<sup>-1</sup>   **C** 0.014 rad s<sup>-1</sup>   **D** 0.92 rad s<sup>-1</sup>