## Exercise 32

Estimate the average speed with which the hair on your head grows. Give your answer in both $\mathrm{m} / \mathrm{s}$ and $\mu \mathrm{m} /$ hour. Briefly describe how you arrived at this estimate.

## Solution

When I go to the barber shop every 6 months, I ask for about 2 inches of hair to be cut off. The average speed is the distance over the time.

$$
\frac{2 \text { inches }}{6 \text { months }}
$$

Convert it to meters per second by using conversion factors.

Convert it to micrometers per hour by using conversion factors.

