

17cm/hour=?miles/second

step 1: 100cm=1m, 1000m=0.6214miles, so 0.6214miles=100 000cm or 10^5 cm=0.6214miles

and **1cm=(0.6214miles)/ 10^5**

step 2 :1hour=60 minutes , 1 minutes=60 second, **1hour=3600 second**

step 3: $17*(1\text{ cm}/1\text{ hour})=17*(0.6214\text{miles}/(10^5*3600\text{ second}))=2934*10^{-11}\text{miles/second}$, or $2.934*10^{-8}\text{miles/second}$