

Alright, let's break this down like a puzzle! Imagine Samin is a very fast runner, and she can run 5 kilometers in just 30 minutes. That means in half an hour, she covers a distance of 5 kilometers. Now, if she keeps running at the same speed and doesn't get tired, how far do you think she can run in the next 15 minutes?

Let's use a real-life example with simpler numbers to understand this better. In 10 minutes, if Samin can run 2 kilometers, how many more kilometers do you think she can run in the next 5 minutes? It's like adding up the distance she covers in each interval to find out the total distance she runs.

So, in our case, since she can run 5 kilometers in 30 minutes, it's like she's running at a speed of 1 kilometer every 6 minutes. Now, if she runs for a total of 45 minutes, how many times do you think she can run this 6-minute distance? Think of it as running several of these 6-minute distances back to back.

By breaking down the 45 minutes into smaller chunks and understanding how far she can run in each chunk, we can figure out the total distance she covers in 45 minutes. So, take a moment to think about it like putting together different pieces of a puzzle to see the whole picture!

So, by applying the same logic and concept we used in the examples, you can calculate how many kilometers Samin can run in 45 minutes by multiplying the distance she covers in 1 minute (which is  $\frac{1}{6}$ th of a kilometer) by the total number of minutes she runs, which is 45 minutes. I hope this explanation helps you understand how to solve this problem step by step!