

## Question:

Carla is downloading a 200 GB file. Normally she can download 2 GB/minute, but 40% of the way through the download, Windows forces a restart to install updates, which takes 20 minutes. Then Carla has to restart the download from the beginning. How long does it take to download the file?

## Reasoning + Answer:

<think> In the first 40% Carla can download  $2 * (40 / 100) * 200 = 16$  GB. In the second 40% Carla can download  $2 * (40 / 100) * 200 = 16$  GB. In the last 20% Carla can download  $2 * (20 / 100) * 200 = 8$  GB. She needs a total of  $16 + 16 + 8 = 40$  with a download speed of 2 GB/min, she needs  $40 / 2 = 20$  min to download the file. She needs an extra  $20 + 20 = 40$  min for the restart. ( $20\text{min} + 20\text{min}$ ) It takes Carla a total of  $40 + 40 = 80$  min. </think><answer>80</answer>

