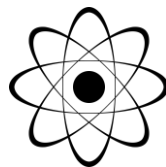


Captain's Fight 4 Backup

FPT 2019
February 8-9th





1) Question

2) Solution

You have 2 minutes to solve the following question :

“

Emmanuel Macron is about to send a letter to all French adults. If each letter is a standard A4 paper, how much would it weight, in gram ?



1) Question

2) Solution

✿ Paper size, $\sigma_p = 623.7 \text{ cm}^2$

✿ Paperweight, $m_p = 80 \text{ g.m}^2 \times 623.7 \text{ cm}^2 = 5.0 \text{ g}$

✿ French adult population (Insee 2019), $N = 51\,635\,218$

$$M = Nm_p = 5.0 \times 51\,635\,218 = 2.6 \times 10^8 \text{ g}$$