An 8.00 × 10^6 kg electromagnet built in Switzerland draws a current of

3.00 × 10^2A. How much charge passes through the magnet in 2.4 min?

ANSWER:

$I = \dfrac{q}{t}, where\ q - charge, t - time, I - current$

$q = I \cdot t$

$t = 2.4 \cdot 60 = 144\ sec$

$q = 3 \cdot 10^2 \cdot 144 = 432 \cdot 10^2\ C$