

how many carbon atoms are there in 50kg sake of coke (assume that coke is pure carbon)

$$\nu = \frac{50 \cdot 10^3}{12} = 4.167 \text{ mol}$$

$$N = N_A \cdot \nu$$

$$N = 6.02 \cdot 10^{23} \cdot 4.167 \cdot 10^3 = 2.51 \cdot 10^{27} \text{ pcs}$$