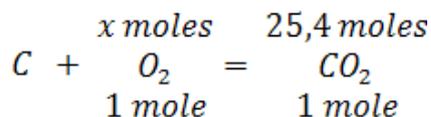


**How many moles of oxygen are needed to produce 25.4 moles of carbon dioxide?**

**Data:**

$v(\text{CO}_2) - 25,4 \text{ moles}$	In order to find amount of oxygen substance we have to write a chemical reaction between carbon and oxygen and to make a proportion, where $x$ – is a number of oxygen moles:
$v(\text{O}_2) - ?$	



Solving the proportion:

$$x = \frac{1 \text{ mole} * 25,4 \text{ moles}}{1 \text{ mole}}$$

$$x = 25,4 \text{ moles}$$

**The solution:** *25,4 moles* of oxygen are necessary for producing 25.4 moles of carbon dioxide.