

## Avogadro constant calculations

1. How many atoms in 6.05g of carbon?
2. How many oxygen atoms in 12.00 dm<sup>3</sup> of oxygen gas?
3. How many ions in 50g of iron (III) oxide?
4. How many molecules in 1 dm<sup>3</sup> of gaseous methane?
5. How many cations in 1.07g sodium carbonate?
6. How many anions in 25 cm<sup>3</sup> of 0.50 mol dm<sup>-3</sup> Mg(SO<sub>4</sub>)<sub>4</sub>?