

# Mole conversions (Review)

$$\textcircled{1} \frac{3.6 \text{ mol Al} \mid 26.982 \text{ g Al}}{1 \text{ mol Al}} = \boxed{97.14 \text{ g Al}}$$

$$\textcircled{2} \frac{42.6 \text{ g O} \mid 1 \text{ mol O}}{15.999 \text{ g O}} = \boxed{2.66 \text{ mol O}}$$

$$\textcircled{3} \frac{645 \text{ g Au} \mid 1 \text{ mol Au}}{196.97 \text{ g Au}} = \boxed{3.27 \text{ mol Au}}$$

$$\textcircled{4} \frac{1.5 \text{ mol C} \mid 6.022 \times 10^{23} \text{ atoms C}}{1 \text{ mol C}} = \boxed{9.033 \times 10^{23} \text{ atoms C}}$$

$$\textcircled{5} \frac{34 \text{ g Ne} \mid 1 \text{ mol Ne} \mid 6.022 \times 10^{23} \text{ atoms Ne}}{20.179 \text{ g Ne} \mid 1 \text{ mol Ne}} = \boxed{1.01 \times 10^{24} \text{ atoms Ne}}$$