

Answers to problems 36, 37, page 331

36. a.  $1.34 \times 10^{24}$  molecules  $\text{NO}_2$

b.  $9.67 \times 10^{23}$  molecules  $\text{NO}$

c.  $1.88 \times 10^{22}$  molecules  $\text{O}_2$

37. a.  $4.61 \times 10^{23}$  molecules  $\text{H}_2$

b.  $4.31 \times 10^{23}$  atoms  $\text{Na}$

c.  $3.30 \times 10^{20}$  molecules  $\text{H}_2$