## Exercise 38

Give the name and symbol of the prefixes used with SI units to indicate multiplication by the following exact quantities.
(a) $10^{3}$
(b) $10^{-2}$
(c) 0.1
(d) $10^{-3}$
(e) $1,000,000$
(f) 0.000001

## Solution

The SI prefixes and their meanings are listed in Table 1.3 on pages $30-31$.
(a) $10^{3}=\mathrm{k}=$ kilo
(b) $10^{-2}=\mathrm{c}=$ centi
(c) $0.1=\mathrm{d}=\mathrm{deci}$
(d) $10^{-3}=\mathrm{m}=$ milli
(e) $1,000,000=10^{6}=\mathrm{M}=\mathrm{mega}$
(f) $0.000001=10^{-6}=\mu=$ micro

