## 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)  $10^3 = k = kilo$
- (b)  $10^{-2} = c = centi$
- (c) 0.1 = d = deci
- (d)  $10^{-3} = m = milli$
- (e) 1,000,000 =  $10^6 = {\rm M} = {\rm mega}$
- (f)  $0.000001 = 10^{-6} = \mu = \text{micro}$