

5.  $0.1 \text{ mm} = 10^{-4} \text{ m}$        $10^4 \text{ s}$

$10 \text{ mm} = \frac{1 \cdot 10^{-2}}{0.1} = 100 \cdot 10^{-4} \text{ m}$        $5 \cdot 10^4 \text{ s} = 1 \cdot 10^5 \text{ s}$   
 $\therefore 10^4 \text{ s} = \frac{10^5}{100} = 1 \cdot 10^3 \text{ s}$

6.  $5 \text{ mm}^3/\text{s}$   
 $1000 \text{ mm}^3 = \frac{1 \cdot 10^{-9}}{10} \cdot 1 \text{ s}$        $6. 2000 \cdot 10^3 = 1450 \cdot 10^3$   
 $x = 200 \text{ s}$        $\therefore 1450 \cdot \frac{10^3 \cdot 10^3}{100} = 5 \text{ mm}$

6.  $10 \text{ C} = 10 \cdot 10^{-2} = 0.1 \text{ A}$        $5 \cdot 10^4 = 50 \cdot 10^3$

9.  $k = 0.1 \text{ W/m} \cdot \text{K}$        $6 \cdot 10^3 \text{ Pa} \cdot \text{s} = 6 \cdot 10^3 \text{ s}^2$   
 $10 = 10 \text{ h/m}$        $10^3 \text{ Pa} \cdot \text{s} = \frac{1 \cdot 10^3}{10^3} \text{ s}^2$   
 $\therefore \text{W/m}^2 = 0.1 \cdot \frac{\text{W}}{\text{m} \cdot \text{K}} = \frac{10 \text{ K}}{10}$        $x = 10^3 \text{ Pa}$

10.  $35 + 0.15 = 35.15$        $5 \cdot 10 = 50 = 5 \cdot 10^1$

14.  $10^3 \text{ W} = \frac{10^3 \cdot 10^3 \cdot 10^3 - 10^3 \cdot 10^3}{10^3}$        $? \cdot 10^3 \text{ Pa} = 1 \cdot 10^3 \cdot \frac{10^3}{10^3} = 10^3 \cdot 10^3$   
 $\text{W} = \frac{10^3 - 10^3}{10} = 0$

16.  $10^3 \text{ W} = \frac{10^3 \cdot 10^3}{10^3} = 1 \cdot 10^3 = 10^3 \text{ W}$        $1000 \text{ W} = 1 \cdot 10^3$

17.  $10^3 \text{ W} = 10^3 \text{ W}$        $10^3 \text{ W} = 10^3$

18.  $10^3 \text{ W} = 10^3 \text{ W}$        $10^3 \text{ W} = 10^3 \cdot 10^3 = 10^6$   
 $\therefore \frac{10^3}{10^3} = 10 = 10^1$

19.  $10^3 \text{ W} = 10^3 \text{ W}$

20.  $10^3 \text{ W} = 10^3 \text{ W}$        $\therefore 10^3 \cdot \frac{10^3}{10^3} = 100 = 10^2$