

$$2. \quad 1 \text{ ns} \times 105 \text{ S} = 10^{-9} \text{ s} \times 105 \text{ s}$$

$$= \frac{1 \text{ ns} \times 105 \text{ s}}{10^{-9} \text{ s}}$$

$$= 105.000.000.000.000$$

$$= 105 \times 10^{11}$$

$$4. \quad 1 \text{ nm} \times 70 \text{ nm} = 10^{-9} \text{ m} \times 70 \text{ nm}$$

$$= \frac{70 \text{ nm} \times 10^{-9} \text{ m}}{1 \text{ nm}}$$

$$= 2 \times 10^{-8}$$

$$= \frac{3 \mu\text{m} \times 10^{-6} \text{ m}}{1 \mu\text{m}}$$

$$= 3 \times 10^{-9}$$

$$5. \quad v \cdot t = 3 \times 10^8 \text{ m/s} \times 1 \text{ s} = d : 3000000000 \rightarrow \text{km}$$

$$1 \text{ ano} = 3 \times 10^7$$

$$\frac{1 \text{ km}}{3 \times 10^8 \text{ m}} = \frac{1000 \text{ m}}{3 \times 10^8 \text{ m}}$$

$$= \frac{1 \text{ km} \times 3 \times 10^8 \text{ m}}{1000 \text{ m}}$$

$$= 3 \times 10^5 \text{ km}$$

$$= 3 \times 10^{5+7}$$

$$= 3 \times 10^{12}$$