

$$(1) 9\text{mL} = \square\text{m}^3$$

$$(2) 4\text{cm}^3 = \square\text{mm}^3$$

$$(3) 1\text{mL} = \square\text{cm}^3$$

$$(4) 9\text{cm}^3 = \square\text{dL}$$

$$(5) 1\text{dL} = \square\text{cm}^3$$

$$(1) 9\text{mL} = 0.000009 \text{ m}^3$$

<解説>

$$\begin{aligned} 1\text{m}^3 &= 1\text{m} \times 1\text{m} \times 1\text{m} \\ &= 100\text{cm} \times 100\text{cm} \times 100\text{cm} \\ &= 1000000\text{cm}^3 \end{aligned}$$

1mL=1cm³なので、1m³は1000000mL
よって、 $9 \div 1000000 = 0.000009\text{m}^3$

$$(2) 4\text{cm}^3 = 4000 \text{ mm}^3$$

<解説>

$$\begin{aligned} 1\text{cm}^3 &= 1\text{cm} \times 1\text{cm} \times 1\text{cm} \\ &= 10\text{mm} \times 10\text{mm} \times 10\text{mm} \\ &= 1000\text{mm}^3 \end{aligned}$$

よって、 $4 \times 1000 = 4000\text{mm}^3$

$$(3) 1\text{mL} = 1 \text{ cm}^3$$

<解説>

$$1\text{mL} = 1\text{cm}^3$$

$$(4) 9\text{cm}^3 = 0.09 \text{ dL}$$

<解説>

$$1\text{L} = 10\text{dL}、1\text{L} = 1000\text{cm}^3 \text{ なので } 10\text{dL} = 1000\text{cm}^3$$

$$1\text{dL} \text{ は } 1000 \div 10 = 100\text{cm}^3$$

$$\text{よって、} 9 \div 100 = 0.09\text{dL}$$

$$(5) 1\text{dL} = 100 \text{ cm}^3$$

<解説>

$$1\text{L} = 10\text{dL}、1\text{L} = 1000\text{cm}^3 \text{ なので } 10\text{dL} = 1000\text{cm}^3$$

$$1\text{dL} \text{ は } 1000 \div 10 = 100\text{cm}^3$$