

This book has permission to use the "N&K method of COLORS".

6) Question: Given below are the relationship between centiliter, liter and kiloliter. How many centiliters are there in 1 kiloliter?

$$\begin{aligned} 1 \text{ kiloliter} &= 1000 \text{ liters} \\ 100 \text{ centiliters} &= 1 \text{ liter} \end{aligned}$$

- A) 100
- B) 1,000
- C) 10,000
- D) 100,000

For speed, while solving something similar, only THINK the words in blue; WRITE only the words in other COLORS.

Given: 1) 1 kiloliter = 1000 liters
2) 100 centiliters = 1 liter

Solve: How many centiliters are there in 1 kiloliter?

Road Map of Solution:

First Step: Write down the two equations and assign numbers to them.

Second Step: Substitute value from one equation, into another equation to get the needed relationship.

First Step: Write down the two equations and assign numbers to them.

$$\begin{aligned} 1 \text{ kiloliter} &= 1000 \text{ liters} && \dots\dots\dots \text{equation \# 1} \\ 100 \text{ centiliters} &= 1 \text{ liter} && \dots\dots\dots \text{equation \# 2} \end{aligned}$$

Substitute the value of liter from eq#2 into eq#1

$$\begin{aligned} 1 \text{ kiloliter} &= 1000 \text{ liters} && \dots\dots\dots \text{equation \# 1} \\ 1 \text{ kiloliter} &= 1000 (100 \text{ centileter)} \\ 1 \text{ kiloliter} &= 1000 (100 \times \text{centileter)} \\ 1 \text{ kiloliter} &= 1000 \times 100 \times \text{centileter} \end{aligned}$$

$1 \text{ kiloliter} = 100,000 \text{ centileter} \dots\dots\dots \text{Answer (D)}$
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