

Ans 1. Road length = 1 km

Drawing length = 10 cm

So, 10 cm = 1 km

1 cm = $\frac{1}{10}$ km

We know that

$$1 \text{ km} = 1000 \text{ m}$$

$$1 \text{ m} = 100 \text{ cm}$$

~~So, 1000 m~~

$$\text{So, } 1 \text{ km} = 1000 \text{ m} = 1000 \times 100 \text{ cm} \\ = 100000 \text{ cm}$$

$$\therefore \text{RF scale} = 10 : 100000 \\ \Rightarrow 1 : 10000 \quad \underline{\text{Ans}}$$

Ans 2. Road length = 10 km

RF scale = 1 : 10000

Let us assume the
Drawing length = x

So, if we plot the drawing using provided RF scale
and the unit of drawing is 'cm'

$$\text{then } 10 \text{ km} = 10 \times 100000 \text{ cm}$$

$$= 1000000 \text{ cm}$$

$$\text{then, } 1 : 10000 = x : 1000000$$

$$\frac{1}{10000} = \frac{x}{1000000}$$

$$x = 100 \text{ cm}$$

~~So the~~ \therefore the length of the Drawing is 100 cm Ans