October-09-13

- a system of measurements based on multiples of 10

SI system - "Systèm International d'Unités"

-internationally recognized

- Canada's measuring system

base unit: a unit of measurement on which other units are based ex meter (m) is the base unit for measuring length

conversion factor: a # by which a quantity expressed in I unit must be multiplyed to convert it to another unit.

SI (METRIC)		IMPERIAL	
	m		inch
	Km		foot
	MM		yard
	cm		yard miles

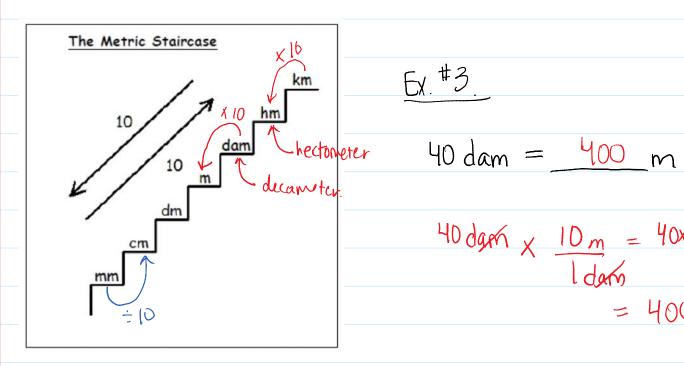
EX. #1

40 km = \_ m

$$\frac{40 \text{ km}}{1 \text{ km}} = \frac{m}{1000 \text{ m}} = \frac{40 \times 1000}{1 \text{ km}} = \frac{40 \times 1000}{1 \text{ km}} = \frac{40 \times 1000}{1 \text{ km}} = \frac{1000 \text{ m}}{1 \text{ km}}$$

$$\frac{\text{Ex.}^{\#2}}{9m} = \underline{\qquad} mm$$

$$9 \text{ m/} \times \frac{100 \text{ cm}}{1 \text{ m/}} \times \frac{10 \text{ mm}}{1 \text{ cm}} = \frac{9 \times 100 \times 10}{1} = \frac{9000 \text{ mm}}{1}$$



$$40 \, dam = 400 \, m$$

$$40 dgm \times \frac{10m}{1 dam} = 40x10$$

$$= 400$$