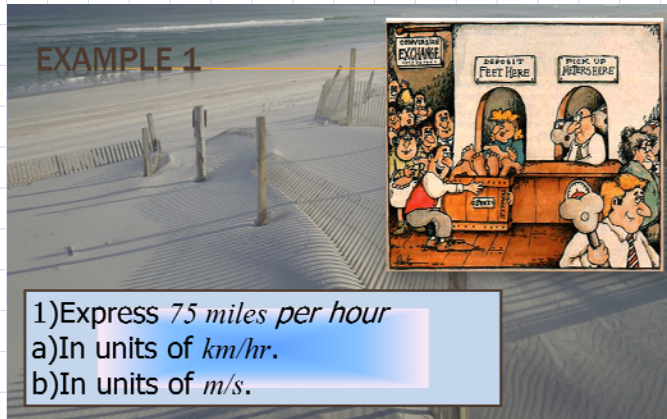


Example 1

7:39 AM



$$a) 75 \text{ mi/hr} \\ 75 \frac{\text{mi}}{\text{hr}} \left(\frac{1 \text{ km}}{.6214 \text{ mi}} \right) = 120.7 \text{ km/hr}$$

$$1 \text{ km} = .6214 \text{ miles}$$

$$b) 120.7 \frac{\text{km}}{\text{hr}} \left(\frac{1000 \text{ m}}{1 \text{ km}} \right) \left(\frac{1 \text{ hr}}{3600 \text{ s}} \right) = 33.5 \text{ m/s}$$

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

$$1 \text{ hr} = 3600 \text{ s}$$