

MPH = mile / per hour  
1 mile = 1.6 km

$$1 \text{ MPH} = 1.6 \text{ km/hr}$$

$$1 \text{ Km/Hr} = 1000 \text{ m}/60 \text{ min.} = 1000 \text{ m}/3600 \text{ sec} = (10/36) \text{ m/s}$$

$$1 \text{ MPH} = 1.6 \times (10/36) \text{ m/s} = (16/36) \text{ m/s}$$

$$1 \text{ m/s} = (36/16) \text{ MPH} = 2.25 \text{ MPH}$$