Wind Conversion

From the user, we are given a wind value and the unit to convert.

To convert between miles per hour (*mph*) and knots (*kts*):

 $Wind_{kts} = 0.8689762 \times Wind_{mph}$

 $Wind_{mph} = 1.1507794 \times Wind_{kts}$

To convert between miles per hour (mph) and meters per second $(m/_S)$:

 $Wind_{m/s} = 0.44704 \times Wind_{mph}$

 $Wind_{mph} = 2.23694 \times Wind_{m/s}$

To convert between miles per hour (mph) and feet per second $\binom{ft}{s}$:

 $Wind_{ft_{s}} = 1.46667 \times Wind_{mph}$ $Wind_{mph} = 0.681818 \times Wind_{ft_{s}}$

To convert between miles per hour (mph) and kilometers per hour $\binom{km}{h}$:

 $Wind_{km/h} = 1.609344 \times Wind_{mph}$ $Wind_{mph} = 0.621371 \times Wind_{km/h}$

To convert between knots (*kts*) and meters per second $\binom{m}{s}$:

 $Wind_{m/s} = 0.5144444 \times Wind_{kts}$

 $Wind_{kts} = 1.9438445 \times Wind_{m/s}$

To convert between knots (*kts*) and feet per second $\binom{ft}{s}$:

$$Wind_{ft_{s}} = 1.6878099 \times Wind_{kts}$$

 $Wind_{kts} = 0.5924838 \times Wind_{ft_{s}}$

To convert between knots (*kts*) and kilometers per hour $\binom{km}{h}$:

 $Wind_{km/h} = 1.852 \times Wind_{mph}$ $Wind_{mph} = 0.5399568 \times Wind_{km/h}$

To convert between meters per second $\binom{m}{s}$ and feet per second $\binom{ft}{s}$:

 $Wind_{m_{s}} = 0.3048 \times Wind_{ft_{s}}$ $Wind_{ft_{s}} = 3.28084 \times Wind_{m_{s}}$

To convert between meters per second $(m/_S)$ and kilometers per hour $\binom{km}{h}$:

 $Wind_{km/h} = 3.6 \times Wind_{m/s}$

 $Windm_{/_{S}} = 0.277778 \times Wind_{km_{/_{h}}}$

To convert between feet per second $\binom{ft}{s}$ kilometers per hour $\binom{km}{h}$: $Wind_{km_{/h}} = 1.09728 \times Wind_{ft_{/s}}$

 $Wind_{ft_{/s}} = 0.911344 \times Wind_{km_{/h}}$