Dr. ZABDAWI ENGR 1100

Given that: 1 meter = 3.2808ft, 1kg = 2.2046Lbm (pound mass), 1 mile = 5280 ft, 1 liter = 1000 $cm^{3}$

1 lbf = 4.4482 N (Newtons), 1Km = 1000 meter, 1gal = 3.78 liters . 1kg = 1000 g , 1 meter = 100 cm,

1 hp =2545 $\frac{BTU}{hr}$ , 1 hp = 745.7 Watts

Perform the following conversions and carry three decimal points of accuracy, and express your final answer with only 3 significant figures.

1. 5.6 meters to feet
2. 7.8 ft to meters
3. 5.65 Newtons to Lbf (Pound Force)
4. 70MPH (Miles per Hour) to KM/Hr (Kilometers per Hour)
5. 45Kg to lbm
6. 100 lbm to kg
7. 5000$ \frac{BTU}{hr}$ to Watts
8. $0.1\frac{g}{cm^{3}} to ^{lbm}/\_{ft^{3}}$
9. 10 gallons to $ft^{3}$