

1. 12" x 14" duct moves \_\_\_\_\_ CFM at a velocity of 150 FPM.
2. Density of air is \_\_\_\_\_.
3. 13 gallons of Mercury = \_\_\_\_\_ Pounds.
4. A 100-watt light bulb will generate \_\_\_\_\_ BTU's in 24 hours.
5. How many BTU's to raise 4 cubic feet of water from 80 to 90 degrees?

Note:  $BTU = Pounds \times Specific\ Heat \times TD$

6. How many BTU's to change 10 pounds of 20 degree ice to 10 pounds of 60 degree water?

1<sup>st</sup> Heat ice to 32 degrees (p. 60)

2<sup>nd</sup> Convert ice to water "Latent Heat of Fusion" (p.1327)

3<sup>rd</sup> Heat water to desired temperature (p. 60)