Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**The Extinguishing Properties of Water Quiz**

1. \_\_\_\_ How much does a gallon of water weigh?
   1. 8.33 pounds
   2. 9.55 pounds
   3. 3.88 pounds
   4. 5.99 pounds
2. \_\_\_\_ Water expands to \_\_\_\_\_\_ times its original volume when converted to steam.
   1. 1200
   2. 1300
   3. 1500
   4. 1700
3. \_\_\_\_ Water is in a solid state at \_\_\_ degrees C and below.
   1. 100
   2. 0
   3. 212
   4. 32
4. \_\_\_\_ Water is in a liquid state between \_\_\_\_ and \_\_\_\_ degrees F.
   1. 0, 100
   2. 32, 100
   3. 32, 212
   4. 0, 212
5. \_\_\_\_ Water vaporizes at
   1. 212 degrees F
   2. 100 degrees C
   3. Both a and b are correct
   4. Neither a or b are correct
6. \_\_\_\_ Which of the following statements is incorrect?
   1. Water is noncombustible
   2. Water absorbs relatively insignificant amounts of heat as it is converted to steam
   3. Water absorbs relatively large amounts of heat
   4. Complete vaporization does not occur immediately upon water reaching its boiling point
7. \_\_\_\_ The smaller the water droplet, or particle, and the larger the number of them (the greater the surface area), the more rapidly the conversion to steam will occur.
   1. True
   2. False
8. \_\_\_\_ A pound of water absorbs \_\_\_\_ BTUs as it is converted to steam.
   1. 8080
   2. 690
   3. 869
   4. 970
9. \_\_\_\_ Water exists in one of two physical states: liquid or solid (ice).
   1. True
   2. False
10. \_\_\_\_ All of the following are considered advantages of water as en extinguishing

agent except

a. Water is readily available and is not cost prohibitive

b. Water takes a relatively large amount of heat to completely convert to steam c. Water allows radiant heat to pass through it

d. Water can be used in many different forms or ways