What Is Heat? Quiz Answer Key

Complete the statements below:
1. Flowing thermal energy is called ___________.

2. Heat transfer that occurs within or between solid objects is called _____________.

3. Heat transfer into and out of fluids (like air or water) is called _____________.

4. Heat always flows from ____hot (or higher temperature)______ materials
to ____cold (or lower temperature)______ materials.

5. Ice water in cold air: Which way will heat flow?
Draw an arrow between the air and the ice water below, showing the direction of heat transfer.
Multiple choice: (circle the correct letter)

1. You accidently touch a hot iron and burn your hand.
   What type of heat transfer caused this to happen?
   a. electricity
   b. convection
   **c. conduction**
   d. locomotion

2. You are holding a glass of ice-cold water (32 °F) in a room that is 72 °F.
   Your body is 98 °F. What is the direction of heat transfer?
   a. From you to the glass and from you to the room
   **b. From you to the glass and from the room to you**
   c. From the glass to you and from the room to the glass
   d. None of the above

3. It is a cool windy day and you start to feel cold.
   What is the main type of heat transfer that is making you feel cold?
   a. conduction
   **b. convection**
   c. solar
   d. induction

4. A material that slows down heat transfer is known as a/an:
   a. conductor
   b. thermometer
   **c. insulator**
   d. metal

5. When you heat up a material (such as water),
   **a. Its molecules move more quickly**
   b. Its molecules slow down
   c. Its temperature will drop
   d. All of the above