Data Types and Variables
Quiz is out of 50 points. Each question is worth 10 points.

1. How does a computer store data? Choose all that apply.
   A. as decimal numbers
   B. as bits
   C. as words
   D. as sequences of ones and zeros (ie on and off signals)
   Note: no partial credit given on this problem. Both answers were needed for full credit

2. Write a statement (ie line of Java code) which declares a double precision floating point variable named xvar and assigns it the initial value of 13.8.
   double xvar = 13.8; OR double xvar;
   xvar = 13.8;
   Note: improper data type (-5); improper variable name (-3); missing semicolon (-2)

3. List three primitive data types used in Java.
   Any of: byte, short, long, char, int, float, double, boolean
   OR fully spelled out: integer, floating point number, double precision floating point number, character
   NOT accepted: String, bit, symbols, etc.

   3 points per answer

4. What is the difference between a floating point number and an integer?
   Anything along the lines of “floats have a decimal and integers are whole numbers”
   Note: error in explanation, i.e. “integers are single digits” (-5)

5. Which one of the following code segments will cause an error?
   A.   int x;
        x = 7;

   B.   double y = 42.8;

   C.   int b;
        int b = 5;

   D.   double a = 7.6;
        a = 54.9;

   Note: No partial credit on this problem