```
1.
   a. 0.0
     exponent = 0000 0000
     fraction = 0000 0000 0000 0000 0000 0000
   b. 6.5
     exponent = 1000 0001
     fraction = 0101 0000 0000 0000 0000 0000
   c. 4.0
     exponent = 1000 0001
     fraction = 0000 0000 0000 0000 0000 0000
   d. -4.0
     exponent = 1000 0001
     fraction = 1000 0000 0000 0000 0000 0000
2.
 single precision = \sim (+/-)3.4e38 =
 double precision = \sim (+/-)1.8e308 =
 3. (answers in form (exponent, fraction))
   a.
     b. d
4. (answers in form (exponent, fraction))
   a. ( 0111 1000, 0000 0000 0000 0000 0000 )
   5. After including the "hidden 1", there are 24 bits of
 fraction in a single precision floating points and 53 bits
 in double precision.
6.0xBE00 = -1.5 =
```