Lab02\_XIAQIN\_QIU

* 1. 9 bits. 9bits=2^9-1=511>400
  2. 511-400=111 students

1. 68010=10101010002=12508=2A816
2. 1311365115 in Decimal
   1. 255
   2. -1
   3. -0
   4. 0100101111010010
   5. 1011010000101110
   6. B42E
   7. 6133
   8. a3
   9. (01111101)(10100000000000000000000) sign: negative 127+(-2)=125 exp=-2
   10. –(1.1010\*2^2)=-13/32
3. 1.01101011\*2^2
   1. 01000000101101011000000000000000
   2. 40B58000
   3. 24-bit needed, only 23-bit is offered for IEEE floating-point.
   4. 11.0000000000000000000001
   5. 11.0000000000000000000010
   6. No
   7. No
4. 1
   1. Yes. The result is 1.00001 for the addition of .00001 and 1.00001
   2. Yes. The truncation occurred in a), so it still occurs.