# Floating Point Binary

Work out the denary for the following, assuming that there are 10 bits for the mantissa and 6 bits for the exponent:

1. 0.001101000 000110

2. 0 101000000 111111

3. 1 011111010 000101

4. 1 101000000 111101

5. 1 111111010 000011

Work out the binary floating point for the following, using 10 bits for the mantissa and 6 bits for the exponent:

6. 67

7. 23.25

8. 123.80

9. 128.25

10. -513

If you use10 bits for the mantissa and 6 bits for the exponent what (in binary) is:
a) The largest positive number?
b) The smallest positive number?
c) The largest negative number?
d) The smallest negative number?