## **Converting Binary (base 2) to Denary (base 10)**

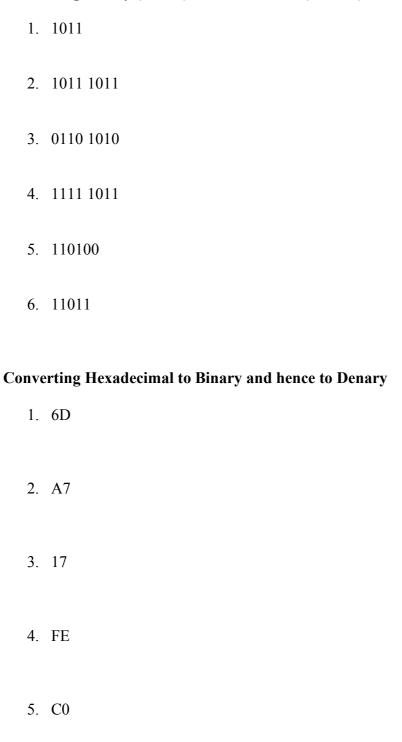
- 1. 1010
- 2. 1110
- 3. 1010 1010
- 4. 1011 1101
- 5. 1111 1111
- 6. 0111 1010

### **Converting Denary (base 10) to Binary (base 2)**

- 1. 16
- 2. 39
- 3. 63
- 4. 169
- 5. 211
- 6. 254

6. 63

### Converting Binary (base 2) to Hexadecimal (base 16)



**Adding Binary Numbers**Convert the following numbers to binary and add them – show your working.

1. 
$$23 + 45$$

$$3. 212 + 36$$

**Adding Binary Numbers**Convert the following numbers to binary and add them – show your working.

$$4. 92 + 76$$

6. 
$$19 + 236$$

# **Negative Binary Numbers**

Convert the following numbers to binary, using the 2s complement method.

1. -4

- 2. -61
- 3. -127
- 4. -128
- 5. -47
- 6. 46

**Subtracting Binary Numbers**Convert the following numbers to binary and subtract them – show your working.

1. 45 - 23

2. 127 - 62

3. 67 - 36

**Adding Binary Numbers**Convert the following numbers to binary and add them – show your working.

4. 92 - 76

5. 115 - 126

6. 19 - 67