

Binary Shift Task Sheet

1. What effect do the following shifts have on a binary value?

- a) One place right: Dividing by 2
- b) Two places right: _____
- c) Three places right: _____
- d) Four places right: _____
- e) One place left: _____
- f) Two places left: _____
- g) Three places left: _____
- h) Four places left: _____

2. Perform arithmetic shifts on the numbers below:

a. Right shift 1 place: 0100 1101

b. Left shift 1 place: 0111 0111

c. Right shift 3 places: 1101 0001

d. Left shift 3 places: 1111 1111

e. Right shift 2 places: 1010 1010

f. Multiply by 4: 1110 0011

g. Divide by 2: 0110 1110

h. Multiply by 8: 0110 1101

i. Divide by 4: 0110 1100
