

## **L4 practice problems**

### **4-bit additions**

Complete the following pairs of 4-bit addition. Repeat using hexadecimal digits.

(a)  $1010 + 0011$

(b)  $1000 + 1011$

### **Signed number representations**

Complete the following table for each signed decimal value given in the first column. Use only the necessary number of bits in each case.

	Signed decimal	Unsigned binary	sign-magnitude representation	2's complement representation
a	-127			
b	-112			
c	-60			
d	-30			
e	30			
f	60			
g	112			
h	127			