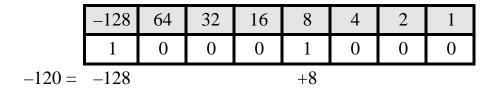
-128	64	32	16	8	4	2	1

(a) An eight-position two's complement value box

	-128	64	32	16	8	4	2	1	
	1	0	0	0	0	0	1	1	
,	-128						+2	+1	=-125

(b) Convert binary 10000011 to decimal



(b) Convert decimal -120 to binary

Figure 9.2 Use of a Value Box for Conversion Between Twos Complement Binary and Decimal

$_{-}$ \times 2°
$\times 2^1$
$_{-} \times 2^{2}$
$_{-} \times 2^{3}$

Figure 9.10 Multiplication of Two Unsigned 4-Bit Integers Yielding an 8-Bit Result