

$$\begin{array}{r}
 143 \overline{) 5} \\
 10 \overline{) 28} \\
 \hline
 243 \\
 40 \\
 \hline
 23
 \end{array}$$

$$\begin{array}{r}
 143 - \\
 128 \\
 \hline
 = 15
 \end{array}$$



$$0 \rightarrow 0$$

$$1 \rightarrow 1$$

$$\begin{pmatrix} 0 \\ 1 \end{pmatrix} \rightarrow \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

COUNT	P	A	B
000	0000000000 0000100001 0001000011	100011111 111000000 110000000	00000101 10100000
001	0010001111	100000000	
010	0100011111 010100000 111011111	000000001 000000000	
011	1110111110	000000100 000000000	
100	1101111100	000000100 000000000	
101	1011110000 + 010100000 000011000	00001000 0000001	
110	0001100000	00010000 0000010	
111	001100000	00100000 00000100	
shift	00000011 Remainder = 3 _{ten}	00011100 28 _{ten}	

count	P	A	B
000	00000 0000 00000 1101 0000 11010	1101 0111 0111 0000 1110 0000	0000 1010 1010 0000
001	000 110101	1100 0000	
010	00 1101011	1000 0000	
011	011010111 - 01010 0000 000 110111	0000 0000	
100	00 1101110	000 0000	
101	01101 1100 - 01010 0000 000 111100	0000 0101 0000 0000	
110	00 11110000	0000 1010 0000 0000	
111	01 11100000 - 01010 0000 001 010000	0001 0101 0000 0000	
Shift	000000101 (5) t_{cy}	0001 0101 (21) t_{cy}	

$$\begin{array}{r} 215 \mid 10 \\ 20 \quad 21 \\ \hline = 15 \\ 10 \\ \hline = 5 \end{array}$$

$$\begin{array}{r} 23+ \\ 128 \\ 64 \\ \hline 215 \end{array}$$

count	P	A	B
000	00000 0000 00000 1000 0000 10001	1000 1111 1111 0000 1110 0000	0000 1001 1001 0000
001	000 100011	1100 0000	
010	00 1000111	1000 0000	
011	01000 1111 - 01001 0000 11111 1111	0000 0001 0000 0000	
100	11111 1110	0000 0010 0000 0000	
101	11111 1100	0000 0100 0000 0000	
110	11111 1000	0000 1000 0000 0000	

$$\begin{array}{r} 128+ \\ 15 \\ \hline 143 \mid 9 \\ -9 \quad 15 \\ \hline 53 \\ 45 \\ \hline = 8 \end{array}$$

111	1 1 1 1 0 0 0 0	0 0 0 1 0 0 0 0	
		0 0 0 0 0 0 0 0	
102	0 1 0 0 1 0 0 0	0 0 0 1 0 0 0 0	-
	0 1 0 0 0 0 0 0	0 0 0 0 0 0 0 1	
811	0 0 0 0 0 1 0 0	0 0 0 0 1 1 1 1	

Remainder = 8_{ten} Quotient = 15_{ten}