* a) 82,913

$$82913_{10} = 65,536_{10} + 16,584_{10} + 512_{10} + 256_{10} + 16_{10} + 8_{10} + 1_{10}$$

$$82,913_{10} = 0001,0100,0011,0001,1001_2$$

1 4 3 1 9

2 4 1 4 3 1

$$82,913_{10} = 14319_{16}$$
$$82,913_{10} = 241431_8$$

* b) 3,313

$$3,313_{10} = 2048_{10} + 1024_{10} + 128_{10} + 64_{10} + 32_{10} + 16_{10} + 1_{10}$$

$$3,313_{10} = 1100,1111,0001_2$$

12 15 1 1

6 3 6 1

$$3,313 = CF1_{16}$$

$$3,313 = 6361_8$$

* c) 482

$$482_{10} = 256 + 128_{10} + 64_{10} + 32_{10} + 2_{10}$$

$$482_{10} = 0001,1110,0010_2$$

1 14 3

7 4 2

$$482_{10} = 1E3_{16} \qquad 482_{10} = 742_8$$

* d) 10, 249

$10249_{10} = 8192_{10} + 2048_{10} + 8_{10} + 1_{10}$

$10249_{10} = \underbrace{0010}\ \underbrace{1000}\ \underbrace{0000}\ \underbrace{1001}_{2}$
              2   8   0   9
               2   4   0   1   1

$10249_{10} = 2809_{16}$, $10249_{10} = 24011_{8}$

* e) 297781

$297781_{10} = 262,144_{10} + 32768_{10} + 2048_{10} + 512_{10} + 256_{10} + 32_{10} + 16_{10}$
        $+ 4_{10} + 1_{10}$

$297781_{10} = \underbrace{0100}\ \underbrace{1000}\ \underbrace{1011}\ \underbrace{0011}\ \underbrace{0101}_{2}$
           4   8   11   3   5
        1   1   0   5   4   6   5

$297781_{10} = 48B35_{16}$, $297781 = 1105465_{8}$

* f) 2347

$2347_{10} = 2048_{10} + 256_{10} + 32_{10} + 8_{10} + 2_{10} + 1_{10}$

$2347_{10} = \underbrace{1001}\ \underbrace{0010}\ \underbrace{1011}_{2}$
          9   2   11
       4   4   5   3

$2347_{10} = 92B_{16}$, $2347 = 4453_{8}$

* g) 9837

$9837_{10} = 8192_{10} + 1024_{10} + 512_{10} + 64_{10} + 32_{10} + 8_{10} + 4_{10} + 1_{10}$

$9837_{10} = 0010\ 0110\ 0110\ 1101_2$

2   6   6   13

2   3   1   5   5

$9837_{10} = 266D_{16}$, $9837_{10} = 23155_8$

* h) 783273

$783273_{10} = 524288_{10} + 131072_{10} + 65536_{10} + 32768_{10} + 16384_{10} + 8192_{10}$
$+ 4096_{10} + 512_{10} + 256_{10} + 128_{10} + 32_{10} + 8_{10} + 1_{10}$

$783273_{10} = 1011\ 1111\ 0011\ 1010\ 1001$

11   15   3   10   9

2   7   7   1   6   5   1

$783273_{10} = BF3A9_{16}$, $783273_{10} = 2771651_8$

* i) 87283

$87283_{10} = 65536_{10} + 16384_{10} + 4096_{10} + 1024_{10} + 128_{10} + 64_{10} + 32_{10}$
$+ 16_{10} + 2_{10} + 1_{10}$

$87283_{10} = 0001\ 0101\ 0100\ 1111\ 0011$

1   5   4   15   3

2   5   2   3   6   3

$87283_{10} = 154F3_{16}$ $87283_{10} = 252363_8$

* j) 26262

$26262_{10} = 16384_{10} + 8192_{10} + 1024_{10} + 512_{10} + 128_{10} + 16_{10}$
$+ 4_{10} + 2_{10}$

$26262_{10} = 0110\ 0110\ 1001\ 0110$
$\qquad\quad\ \ \ 6\quad 6\quad 9\quad 6$
$\qquad\qquad 6\ \ 3\ \ 2\ \ 2\ \ 6$

$26262_{10} = 6696_{16}$, $26262_{10} = 63226_{8}$

* K) 050695

$950695_{10} = 32768_{10} + 16384_{10} + 1024_{10} + 512_{10} + 4_{10} + 2_{10} + 1_{10}$

$050695_{10} = 1100\ 0110\ 00000\ 111_2$
$\qquad\qquad\ \ 12\quad 6\quad\ 0\quad\ 7$
$\qquad\qquad\ \ 1\ \ 4\ \ 3\ \ 0\ \ 0\ \ 7$

$050695_{10} = C607_{16}$, $050695 = 143007_{8}$

* l) 55263

$55263_{10} = 32768_{10} + 16384_{10} + 4096_{10} + 1024_{10} + 512_{10} + 256_{10}$
$+ 128_{10} + 64_{10} + 16_{10} + 8_{10} + 4_{10} + 2_{10} + 1_{10}$

$55263_{10} = 1101\ 0111\ 1101\ 1111_2$
$\qquad\qquad\ 13\quad 7\quad 13\quad 15$
$\qquad\qquad 1\ \ 5\ \ 3\ \ 7\ \ 3\ \ 7$

$55263_{10} = D7DF_{16}$, $55263_{10} = 153737_{8}$

* m) 43720

$43720_{10} = 32768_{10} + 8192_{10} + 2048_{10} + 512_{10} + 128_{10} + 64_{10} + 8_{10}$

$43720_{10} = 1010\,1010\,1100\,1000_2$

10   10   12   8

1   2   5   3   1   0

$43720_{10} = AAC8_{16}$ $43720_{10} = 125310_8$

* n) 6713

$6713_{10} = 4096_{10} + 2048_{10} + 512_{10} + 32_{10} + 16_{10} + 8_{10} + 1_{10}$

$6713_{10} = 0001\,1010\,0011\,1001_2$

1   10   3   9

1   5   0   7   1

$6713_{10} = 1A39_{16}$, $6713_{10} = 15071_8$

* o) 662

$662_{10} = 512_{10} + 128_{10} + 16_{10} + 4_{10} + 2_{10}$

$662_{10} = 0010\,1001\,0110_2$

2   9   6

1   2   2   6

$662_{10} = 296_{16}$, $662 = 1226_8$