Encoding 2 sample manual work

- hex FFE5 as unsigned decimal: binary 1111 1111 1110 0101

  Dorin's way: 1, 3, 7, 15, 31, 63, 127, 255, 511, 1023, 2047, 4094, 8188, 16377, 32754, 65509

- binary 0011 1010 1001 0100 as signed decimal:

  ~~two's complement: 1100 0101 0110 1011 + 1 = 1100 0101 0110 1100~~

  * Doh! no need for two's complement because sign bit is zero

  Dorin's way: 1, 3, 7, 14, 29, 58, 117, 234, 468, 937, 1874, 3749, 7498, 14996

- octal 076660 as hexadecimal:

  binary: 0 111 110 110 110 000

  regroup: 7 D B 0 → 7DB0

- octal 177375 as hexadecimal:

  binary: 1 111 111 011 111 101

  regroup: F E F D → FEFD

- hex 81C0 as signed decimal:

  binary: 1000 0001 1100 0000 → sign bit is 1, zoned to negate

  two's c: 0111 1110 0011 1111

  \+ 1

  0111 1110 0100 0000 → Dorin's way: 1, 3, 7, 15, 31, 63, 126, 252, 505, 1010, 2020, 4040, 8080, 16160, 32320 → negated

  = −32320