

Lab 1 - Unit Conversion

1.1 $1812_{10} = 3424_8 = 11100010100_2 = 714_{16}$

1.2

dezimal	binär	oktal	duodezimal	hexadezimal
42	101010	52	36	2A
26	11010	32	22	1A
14	1110	16	12	D
32	11111	37	28	20
126	1111110	176	A6	FE

1.3.4

Hexdez.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
binär	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
	A	B	C	D	E	F									

$$FE_{16} = 1111.1110$$

$$ABAB_{16} = 1010.1011.1010.1011$$

$$FEDC_{16} = 1111.1110.1101.1100$$

$$180A_{16} = 0001.1000.0000.1010$$

$$22_{16} = 0010.0010$$

$$0100.1110_2 = 4E_{16}$$

$$1111_2 = F$$

$$011010_2 = 1A_{16}$$

$$10_2 = 2_{16}$$

$$1_2 = 1_{16}$$

2.2 $0000.0010 + 0000.0011 = 0000.0101$

$$0000.1000 - 0000.1001 = -0000.0001$$