

Tallsystemer grit.

1.

- a) 4 → 0000 0100
- b) 17 → 0001 0001
- c) 34 → 0010 0010
- d) 128 → 1000 0000
- e) 255 → 1111 1111

2.

- a) 1010 → 10 → A
- b) 1 0101 1001 → 345 → 159
- c) 101 0011 → 83 → 53
- d) 1 1011 0111 → 439 → 1B7
- e) 1111 1111 → 255 → FF

- | 3. hex | | dec | | binær |
|--------|---|------|---|----------------|
| a) 8 | → | 8 | → | 0000 1000 |
| b) A5 | → | 165 | → | 1010 0101 |
| c) FC | → | 252 | → | 1111 1100 |
| d) 254 | → | 596 | → | 10 0101 0100 |
| e) D7A | → | 3450 | → | 1101 0111 1010 |

4.

a) 0110
 + 0010
 = 0100

b) 0110
 - 1 1110
 = 0100 .

$$\begin{array}{r}
 \text{c)} \quad 1110 \\
 \quad 1111 \\
 \hline
 = 1\ 0001 = 1\ 0001.
 \end{array}$$

$$\begin{array}{r}
 \text{d)} \\
 \quad 1\ 0010 \\
 \quad 1010 \\
 \hline
 = 100
 \end{array}$$

$$\begin{array}{r}
 \text{e)} \quad 1\ 1100 \\
 \quad - 1\ 0110 \\
 \hline
 = 11\ 0010
 \end{array}$$

5.

Fortegn er plus så msb en er 0

| | | |
|---------|-----------|----------------------|
| = 0 | 0000 0010 | 11,10 0011 1101 0111 |
| Fortegn | eksponent | mantisse |