Condition codes:

* Used for conditional execution
* N = negative
* Z = zero
* C = carry out
* V = overflow

Unsigned binary decimal:

* Does not specify sign, stores larger value
* 0 to 2n – 1

Hexadecimal:

2. range of an unsigned or signed bit field without a calculator.

* Unsigned: [0, 2^n – 1]
* 2s Complement: [-2n-1, 2n-1 -1 ]

3. convert numbers from decimal to hexadecimal or from hexadecimal or binary to decimal without a calculator.

* From decimal to hexadecimal:
  + Convert to binary, split into 4s, convert to hex
  + Or opposite for opposite

4. Be able to add and subtract binary or hexadecimal numbers using two's complement, without a calculator.

* + added with + giving - => signed overflow