

## Quiz 1

Convert the following decimal number into an unsigned binary value: 7<sub>10</sub>

$$\begin{array}{r} \phantom{2} \phantom{1} \phantom{0} \\ \phantom{2} \phantom{1} \phantom{0} \\ \text{2} \quad \text{1} \quad \text{0} \\ \text{1} \quad \text{1} \quad \text{1} \\ \phantom{2} \phantom{1} \phantom{0} \end{array}$$

$$= 1 \times 2^2 + 1 \times 2^1 + 1 \times 2^0$$

$$= 1 \times 4 + 1 \times 2 + 1 \times 1$$

$$= 4 + 2 + 1 = 7$$