Convert 11101010 to a decimal

Multiply each digit of the binary number power of two

1x27 + 1x26 + 1x25 + 0x24 + 1x23 + 0x22 + 1x21 + 0x20

1x128 + 1x64 + 1x32 + 0x16 + 1x8 + 0x4 + 1x2 + 0x1

= 128 + 64 + 32 + 0 + 8 + 0 + 2 + 0

Add up the numbers from above

128 + 64 + 32 + 0 + 8 + 0 + 2 + 0

= 234