01.1 Convert the binar	y number	00001	010	into	decimal
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[1 mark]

10

**01.2** Convert the binary number 00101110 into decimal.

[1 mark]

46

**01.3** Convert the decimal number 205 into binary. Write your answer as an 8-bit binary number.

[1 mark]

### 11001101

**01.4** State the largest decimal number that can be represented using 8 bits.

[1 mark]

## 255 or 28-1

**01.5** State the largest decimal number that can be represented using 6 bits.

[1 mark]

# 63 or 2<sup>6</sup>-1

**02** List the two things that binary numbers are used to store in computers.

[2 marks]

#### 1. Data

#### 2. Instructions

**03** Maria writes down the 8-bit binary number 10011101. She says "I know that this binary number is an odd number without converting it into decimal".

Explain why Maria is correct

[2 marks]

One developed point is needed – this is a two mark question. For example:

The last digit is a 1 [1 mark]. This is the only digit that represents an odd number [1 mark]