



# Converting Binary Numbers to Decimal Numbers



In this activity, you will practice converting binary numbers to decimal numbers. Using the information below, convert each binary number into a decimal number.

<b>128</b>	<b>64</b>	<b>32</b>	<b>16</b>	<b>8</b>	<b>4</b>	<b>2</b>	<b>1</b>
$2^7$	$2^6$	$2^5$	$2^4$	$2^3$	$2^2$	$2^1$	$2^0$

**Example:**  $10010101 = 128 + 0 + 0 + 16 + 0 + 4 + 0 + 1 = 149$

1.  $01101110 =$  \_\_\_\_\_

2.  $11100101 =$  \_\_\_\_\_

3.  $00011100 =$  \_\_\_\_\_

4.  $11001001 =$  \_\_\_\_\_

5.  $00010001 =$  \_\_\_\_\_

6.  $01010100 =$  \_\_\_\_\_

7.  $10101010 =$  \_\_\_\_\_

8.  $00110011 =$  \_\_\_\_\_

9.  $10110100 =$  \_\_\_\_\_

10.  $00001111 =$  \_\_\_\_\_