

Activity Guide - Binary Practice

Directions

Use your Flippy Do to answer the questions.

All 4-Bit Numbers: Fill in the binary equivalents for the decimal numbers below. We've started the first three for you.

Binary: 4-bit number	Decimal
0000	0
0001	1
0010	2
0011	3
0100	4
0101	5
0110	6
0111	7

Binary: 4-bit number	Decimal
1000	8
1001	9
1010	10
1011	11
1100	12
1101	13
1110	14
1111	15

What do you notice when you compare the odd numbers with the even numbers? What might explain this?

Odd numbers have "1" in one's place, even numbers have "0." This aligns with the decimal system rule: "0" is even, "1" is odd.

Binary Numbers with exactly one 1: Complete the chart with all 8-bit binary numbers that have exactly one 1. We've done the first two for you.

Binary: 8-bit number (with exactly one 1)	Decimal
0000 0001	1
0000 0010	2
0000 0100	3
0000 1100	4

Binary: 8-bit number (with exactly one 1)	Decimal
0000 1011	5
0000 1010	6
0000 1001	7
0001 1000	8

What do you notice about the decimal equivalents above?

Numbers are powers of two in binary, with place values like 1s, 2s, 4s, and 8s, mirroring the decimal system's place value pattern.

Conversion Practice: Find the equivalent binary or decimal numbers below.

Binary Study Guide

Roman Wölfel



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