

Binary/Decimal Practice – High School Version

Part A: Basic Conversions

1. Convert 110 (binary) to decimal.
2. Convert 1011 (binary) to decimal.
3. What is 10000 (binary) in decimal?
4. Write decimal 7 in binary.
5. Convert decimal 15 into binary.
6. Convert binary 11110 into decimal.
7. What is decimal 32 in binary?
8. Convert binary 100101 to decimal.

Part B: Mixed Practice

1. Add binary numbers: $1010 + 1101$.
2. Subtract binary numbers: $1110 - 1001$.
3. Convert decimal 45 to binary.
4. Convert binary 110111 to decimal.
5. Multiply binary numbers: 101×11 .
6. Divide decimal 100 by 2 repeatedly to find its binary form.

Answer Key

Part A: 1) 6, 2) 11, 3) 16, 4) 111, 5) 1111, 6) 30, 7) 100000, 8) 37

Part B: 1) 10111 (23), 2) 0101 (5), 3) 101101, 4) 55, 5) 1111 (15), 6) 1100100