

Problems

0. Convert these binary to decimal

1. 10100110
2. 101111100
3. 10001100
4. 11001011
5. 100111

1. Convert these decimal to binary

1. 470
2. 328
3. 102
4. 415
5. 315

2. Add these binary numbers

1. $1011000 + 110100001$
2. $110011100 + 111010011$
3. $10100101 + 1010100$
4. $100011100 + 100001$
5. $110010100 + 111000001$

3. Subtract these binary numbers

1. $10010100 - 111100$
2. $11001111 - 11001101$
3. $110010101 - 101000010$
4. $110010101 - 11001100$
5. $110100111 - 10010101$

4. Multiply these binary numbers

1. $101011111 * 1000$
2. $1011111 * 111$
3. $111000111 * 1000$
4. $100101 * 111$
5. $111000100 * 111$

5. Divide these binary numbers

1. $11110 / 110$
2. $111110000 / 1000$
3. $110100010 / 1011$
4. $101110011 / 111$
5. $1101000 / 1000$

6. Find the ones complement of these binary numbers

1. 111100011

2. 110101111
3. 100110010
4. 11011100
5. 100011110

7. Find the twos complement of these binary numbers

1. 101101101
2. 1101001
3. 111101101
4. 1101111
5. 100000

8. Convert these floating point numbers to binary

1. 487.62380563311785
2. 266.9109900439871
3. 66.54180359452303
4. 446.8970354398708
5. 416.73160606146723