Natural Numbers Ln4caer_s: 0 + n = n + v = n additive identity $1 \cdot n = n \cdot 1 = n$ Multiplicative identity 3-n is the additive inverse M = M = MMissing invers!

Katianal Numbers: Q P, 7, 2 E Z Multiplichere inverse. es. $7 \cdot \frac{1}{7} = 1$ So $\frac{1}{7}$ is the inverse of $\frac{1}{7}$. Primes and t-actors:

L2=2·3·7

144=2.72=2.2.36=2.2.2.18=2.2.2.9

-7.7.7.3 = 7.3

Deminder.

9 = 2.4 + The remainder

74-2.37+0

21178,7149,3+4

1 rradiani.

$$\frac{1}{a^2+b^2-c^2}$$

Number Systems: Decimal System.

De 1 = 10

Positional (3459 = 3.1000 + 4.100 + 5.10 + 9.1 $=3.10^{3}+4.10^{7}+5.10^{4}+9.10^{6}$ Subjem < $|0^{-7}| = |0.0| = \frac{1}{|0^{7}|} = \frac{1}{|00|}$

1.10-12.10-13.10. (1.10-45.10-6.10

545+cm5. Allowed Decimal. Binary. Hexadecimal: 0-9, A-F 0 c + w : 0 - 7 Jinani. $|3|_{0} = 8+5 = 8+4+1 = 2^{3}+2^{3}+2^{0} = |0|$ $|2|_{1}=1014$

1.23+1.27+0.21+1.2°

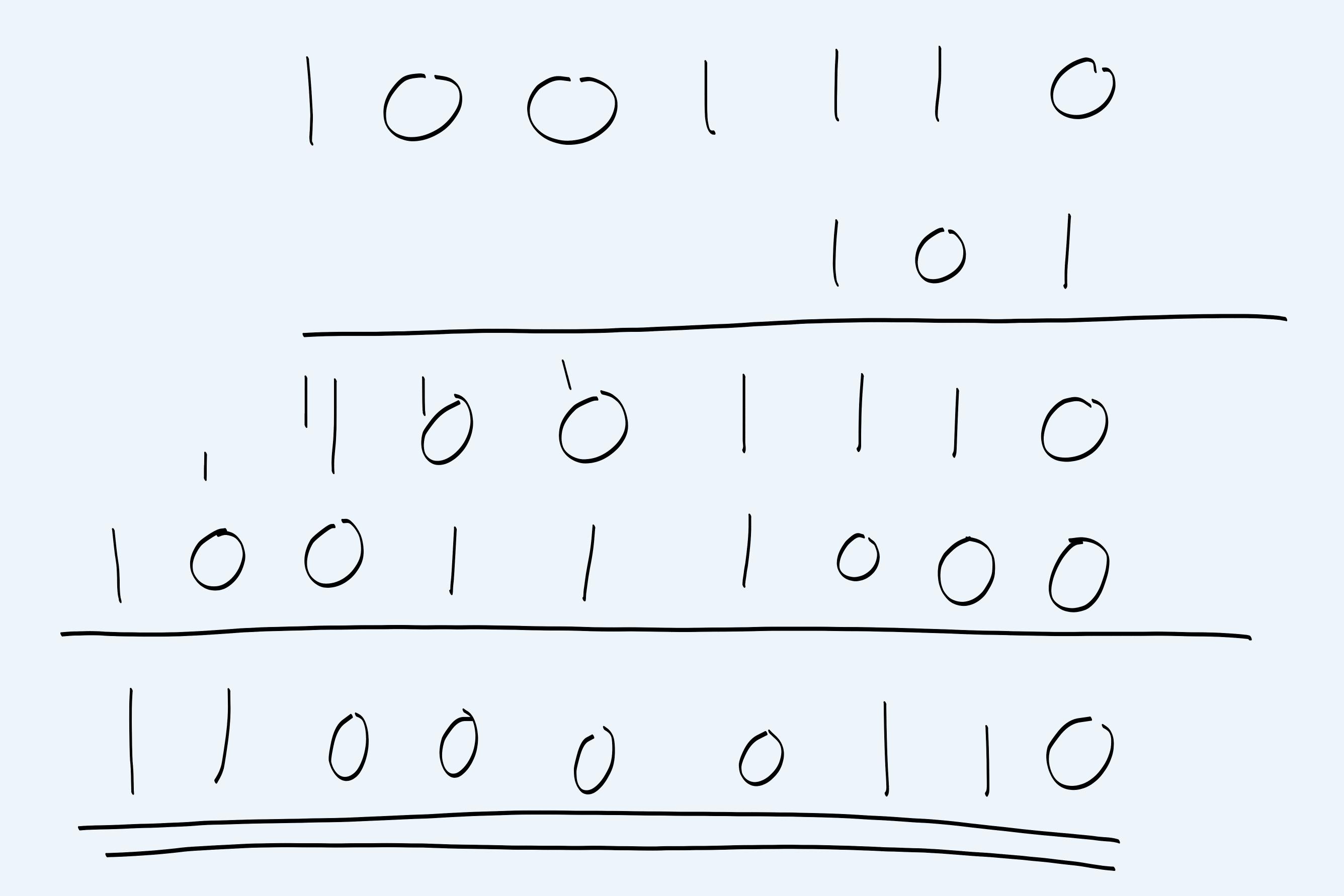
$$|14 - 2^{6} + 50 - 64 + 32 + 18 = 64 + 32 + 16 + 2$$

$$-2^{6} + 2^{5} + 2^{7} + 2^{7} + 2^{7}$$

$$-2^{6} + 2^{5} + 2^{7}$$

MulAipliculiun.

107 x 280



$$3021_8 = 3.8^3 + 0.8^2 + 1.8^4 + 1.8^6 = 1553_{10}$$

 $\frac{112x}{A=10}$, B=11 F=15 +0-9 $123_{16}=1.16^{2}+2.16^{4}+3.16^{6}=256+32+3=291_{10}$ Hex. AZE = 10.162+2.161+14.16 =

$$\frac{ex}{7000_{10}} \stackrel{!6}{=} 7.16^{7} + 708 = 7.16^{7} + 13.16^{4} + 0.16^{9}$$

$$= 7000_{10} = 7.16^{7} + 708 = 7.16^{7} + 13.16^{4} + 0.16^{9}$$

