**Sistemul de numeratie octal**

Adunarea

376, 528 + 24, 7618

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | 1 | 1 | 1 |  |  |  |
| 3 | 7 | 6, | 5 | 2 | 0 | + |
|  | 2 | 4, | 7 | 6 | 1 |  |
| 4 | 2 | 3, | 5 | 0 | 1 |  |

Scaderea

30200, 458 – 3567, 278

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| \* | 7 | \*10 | 7 | 10 | \* | 10 |  |
| 3 | 0 | 2 | 0 | 0, | 4 | 5 | - |
|  | 3 | 5 | 6 | 7, | 2 | 7 |  |
| 2 | 4 | 4 | 1 | 1, | 1 | 6 |  |

50102, 438 – 367, 358

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| \* | 7 | \*10 | 7 | 10 | \* | 10 |  |
| 5 | 0 | 1 | 0 | 2, | 4 | 3 | - |
|  |  | 3 | 6 | 7, | 3 | 5 |  |
| 4 | 7 | 5 | 1 | 3, | 0 | 6 |  |

Inmultirea

37, 58 \* 4, 628

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | 1 | 2 | 1 |  |  |  |
|  |  |  | 3 | 7, | 5 | \* |
|  |  |  | 4, | 6 | 2 |  |
|  |  |  | 7 | 7 | 2 |  |
|  | 2 | 7 | 5 | 6 |  | + |
| 1 | 7 | 6 | 4 |  |  |  |
| 2 | 2 | 7, | 1 | 5 | 2 |  |

16 + 1 = 17

52 + 3 = 55

22 + 5 = 27

34 + 2 = 36

14 + 3 = 17

15 + 4 = 21

Impartirea

352, 168 / 7, 48

1. Deplasam virgula
2. Alegem lungimea nr care poate fi / (daca pana la , nu exista nr cu suficiente cifre ca sa facem /, atunci la rezultat punem 0, si luam nr de cifre necesare dupa ,)
3. Efectuam impartirea, corectitudinea acesteia o verificam comparand restul obtinut cu valoarea impartitorului (r<i)
4. Vom cobori cate o cifra in caz daca nr obtinul dupa coborare poate fi /, atunci facem /, in caz contrar punem 0 la rs si repetam pasul 4
5. Stopam daca: restul este 0 sau rezultatele se repeat periodic sau este indicate precizia

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | 5 | 2 | 1, | 6 | 7 | 4 |  |  |  |  |
| 2 | 6 | 4 |  |  | 3 | 7, | 1 | 6 | 5 |  |
| - | 6 | 6 | 1 |  |  |  |  |  |  |  |
|  | 6 | 4 | 4 |  |  |  |  |  |  |  |
|  |  | 1 | 5 | 6 |  |  |  |  |  |  |
|  |  |  | 7 | 4 |  |  |  |  |  |  |
|  |  |  | 6 | 2 | 0 |  |  |  |  |  |
|  |  |  | 5 | 5 | 0 |  |  |  |  |  |
|  |  |  |  | 5 | 0 | 0 |  |  |  |  |
|  |  |  |  | 4 | 5 | 4 |  |  |  |  |
|  |  |  |  |  | 2 | 4 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

Impartirea in binar

1001101,1012 / 11,012

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0, | 1 | 1 | 1 | 0 | 1 |  |  |  |  |  |
|  | 1 | 1 | 0 | 1 |  |  |  |  |  | 1 | 0 | 1 | 1 | 1, | 1 | 1 | 1 | … |
|  |  | 1 | 1 | 0 | 0 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 1 | 1 | 0 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 1 | 1 | 0 | 0 | 1 |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 1 | 1 | 0 | 1 |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 1 | 1 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 1 | 1 | 0 | 1 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 1 | 0 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 1 | 1 | 0 | 1 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 1 | 0 | 1 | 0 | 0 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 1 | 1 | 0 | 1 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 1 | 1 | 1 | 0 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 1 | 1 | 0 | 1 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | 1 | … |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

34A0B,1716 \* 12B,316

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  | 3 | 4 | A | 0 | B, | 1 | 7 | \* |
|  |  |  |  |  |  |  |  |  |  |  |  | 1 | 2 | B, | 3 |  |
|  |  |  |  |  |  |  |  |  | 9 | D | E | 2 | 1 | 4 | 5 |  |
|  |  |  |  |  |  |  | 2 | 4 | 2 | E | 7 | 9 | F | D |  | + |
|  |  |  |  |  |  |  | 6 | 9 | 4 | 1 | 6 | 2 | E |  |  |  |
|  |  |  |  |  |  | 3 | 4 | A | 0 | B | 1 | 7 |  |  |  |  |
|  |  |  |  |  |  | 3 | D | 8 | 1 | 8 | D | 5, | F | 1 | 5 |  |

2C+6=32

15+6=1B+1=1C+1=1D

1B+1=1C+B=27+1=28

3AB,1F5D16 / E,C416

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | A | B | 1 | F, | 5 | D | E | C | 4 |  |  |  |  |  |
| 2 | C | 4 | C |  |  |  | 3 | F, | 9 | A | 1 | 9 | … |  |
|  | E | 6 | 5 | F |  |  |  |  |  |  |  |  |  |  |
|  | D | D | 7 | C |  |  |  |  |  |  |  |  |  |  |
|  |  | 8 | E | 3 | 5 |  |  |  |  |  |  |  |  |  |
|  |  | 8 | 4 | E | 4 |  |  |  |  |  |  |  |  |  |
|  |  |  | 9 | 5 | 1 | D |  |  |  |  |  |  |  |  |
|  |  |  | 9 | 3 | A | 8 |  |  |  |  |  |  |  |  |
|  |  |  |  | 1 | 7 | 5 | 0 |  |  |  |  |  |  |  |
|  |  |  |  |  | E | C | 4 |  |  |  |  |  |  |  |
|  |  |  |  |  | 8 | 8 | C | 0 |  |  |  |  |  |  |
|  |  |  |  |  | 8 | 4 | E | 4 |  |  |  |  |  |  |
|  |  |  |  |  |  | 3 | D | C | … |  |  |  |  |  |

6+7E

|  |  |  |
| --- | --- | --- |
| 7 | E | + |
|  | 6 |  |
| 8 | 4 |  |

8C+7=93