Addition

- 1. $11100111001110101_{(2)} + 1101111011111_{(2)} = ?_{(2)}$
 - **R**: 1111010100101010100₍₂₎
- 2. $23045_{(6)} + 100254_{(6)} = ?_{(6)}$
- R: 123343₍₆₎ 3. $54AB6F_{(16)} + CD097D_{(16)} = ?_{(16)}$ R: 121B4EC₍₁₆₎
- 4. $2122012_{(3)} + 10112222_{(3)} = ?_{(3)}$
- R: 20012011₍₃₎
- 5. $3220013_{(4)} + 22303231_{(4)} = ?_{(4)}$
- R: 32123310₍₄₎
- 6. $3401323_{(5)} + 444033_{(5)} = ?_{(5)}$
- R: 4400411₍₅₎
- 7. $6543210_{(7)} + 664455_{(7)} = ?_{(7)}$

- R: 10540665₍₇₎
- 8. $5677034_{(8)} + 1234567_{(8)} = ?_{(8)}$
- R: 7133623₍₈₎ R: E3C05D₍₁₆₎
- 9. $ABCDE_{(16)} + D9037F_{(16)} = ?_{(16)}$
- R: 10000011000₍₂₎

10. $1100101011_{(2)} + 11101101_{(2)} = ?_{(2)}$

- **Subtraction**
- 1. $10001100010_{(2)} 1110111011_{(2)} = ?_{(2)}$ R: $10100111_{(2)}$
- 2. $102387_{(9)} 64502_{(9)} = ?_{(9)}$
- R: $26785_{(9)}$
- 3. $501BA_{(16)} 32ED_{(16)} = ?_{(16)}$
- R: 4CECD₍₁₆₎
- 4. $130046_{(8)} 71257_{(8)} = ?_{(8)}$
- R: 36567₍₈₎
- 5. $210354_{(7)} 55466_{(7)} = ?_{(7)}$
- R: 121555₍₇₎
- 6. $210354_{(6)} 44355_{(6)} = ?_{(6)}$
- R: 121555₍₆₎
- 7. $102003_{(5)} 3333_{(5)} = ?_{(5)}$
- R: 43120₍₅₎
- 8. $102003_{(4)} 3333_{(4)} = ?_{(4)}$
- R: 32010₍₄₎
- 9. $100111000_{(2)} 1100111_{(2)} = ?_{(2)}$
- R: 11010001₍₂₎
- 10. $10B009_{(16)} A5FCD_{(16)} = ?_{(16)}$
- R: 6503C₍₁₆₎

Multiplication by one digit

1. $7023_{(8)} * 5_{(8)} = ?_{(8)}$

R: 43137₍₈₎

2. $32001B_{(16)} * 6_{(16)} = ?_{(16)}$

R: 12C00A2₍₁₆₎

3. $12345_{(7)} * 5_{(7)} = ?_{(7)}$

R: 65424₍₇₎

4. $12345_{(6)} * 5_{(6)} = ?_{(6)}$

R: 111101₍₆₎

5. $31203_{(5)}*3_{(5)} = ?_{(5)}$

R: 144114₍₅₎

6. $31203_{(4)}*3_{(4)} = ?_{(4)}$

R: 220221₍₄₎

7. $21563_{(8)} *7_{(8)} = ?_{(8)}$

- R: 174045₍₈₎
- 8. $A23F4_{(16)}*B_{(16)}=?_{(16)}$
- R: 6F8B7C₍₁₆₎

Division by one digit

1. $20101_{(3)}:2_{(3)}=?_{(3)}$

2. $1\text{FED0205}_{(16)}:9_{(16)}=?_{(16)}$

3. $120456_{(8)}:6_{(8)}=?_{(8)}$

4. $120456_{(7)}:6_{(7)}=?_{(7)}$

5. $321023_{(5)}:3_{(5)}=?_{(5)}$

6. $321023_{(4)}:3_{(4)}=?_{(4)}$

7. $2A0F86_{(16)}$: $E_{(16)} = ?_{(16)}$

8. $765433_{(8)}:4_{(8)}=?_{(8)}$

R: $10012_{(3)}$ remainder $0_{(3)}$

R: $38C1CAB_{(16)}$ remainder $2_{(16)}$

R: $15335_{(8)}$ remainder $0_{(8)}$

R: $13421_{(8)}$ remainder $0_{(8)}$

R: 103322₍₅₎ remainder 2₍₅₎

R: 103003₍₄₎ remainder 2₍₄₎

R: $3011B_{(16)}$ remainder $C_{(16)}$

R: 175306₍₈₎ remainder 3₍₈₎