Number systems

1) **Review exercises**

1. What is the number system that uses only two symbols? Name the base of the number system and the symbols used.

2. What is the base of the octal number system? What are the symbols used?

3. Name the number system we use for everyday calculations. Name the base of the number system and the symbols used.

4. What is the number system that uses sixteen different symbols? Name the base of the number system and the symbols used.

2) Represent the following numbers in a calculation frame

I. 47510
II. 86910
III. 68110
IV. 100510
V. 472310

VI. 101112
VII. 1010102
VIII. 111112
IX. 1011012
X. 11010112

2) Expand the numbers represented in the calculation frames in (2) above.

4) Convert the following decimal numbers to binary numbers.
I. 475
II. 869
III. 681
IV. 100
V. 384

VI. 256
VII. 512
VIII. 760
IX. 920
X. 128

5) Convert the following binary numbers to decimal numbers.
I. 101112
II. 1010102
III. 111112
IV. 1011012
V. 11010112

VI. 1100102
VII. 10101012
VIII. 1111102
IX. 1110012
X. 1100112