| Department Education, Sa Province/ Volume Provincial Department of Educat | ion - Sabaragamuwa - Weekly School |
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| Department Sabaragamuwa Province/ Weekly School Department Subject - Information and Communication Technology Department of Education, Sabaragamuwa Province/ weekly School Department Grade - 8 Ce/ We Week - 21 Babaraga Veekly S | Prepared by - E. Anjali Sandarekha R / Embi / Andoluwa Vidyalaya. Translated by-M.G Chathurika Gamage R / Embi / Panawala Vidyalaya. |
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Number systems

1) **<u>Review exercises</u>**

- 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 | VI. 101112 |
|------------|--------------|
| II. 86910 | VII. 1010102 |
| III. 68110 | VIII. 111112 |
| IV. 100510 | IX. 1011012 |
| V. 472310 | 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 | VI. 256 |
|----------|-----------|
| II. 869 | VII. 512 |
| III. 681 | VIII. 760 |
| IV. 100 | IX. 920 |
| V. 384 | X. 128 |

5) Convert the following binary numbers to decimal numbers.

| I. 101112 | VI. 1100102 |
|-------------|---------------|
| II. 1010102 | VII. 10101012 |
| III. 111112 | VIII. 1111102 |
| IV. 1011012 | IX. 1110012 |
| V. 11010112 | X. 1100112 |