

Computer application.

A

- 1) Base
- 2)
- 2) Aryabhata
- 3) Binary
- 4) Octal
- 5) Decimal
- 6) 16
- 7) Binary
8. Computer
- 9) Decimal
- 10) ~~Decimal~~, Hexadecimal
- 11) 1.
- 12) 4
- 13) 8

$$a) 1 \times 2^7 \quad 1 \times 2^6 \quad 0 \times 2^5 \quad 0 \times 2^4 \quad 1 \times 2^3 \quad 1 \times 2^2 \quad 0 \times 2^1 \quad 0 \times 2^0$$

$$1 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 128$$

$$1 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 64$$

$$0 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 0$$

$$0 \times 2 \times 2 \times 2 \times 2 = 0$$

$$1 \times 2 \times 2 \times 2 = 8$$

$$1 \times 2 \times 2 = 4$$

$$0 \times 2 = 0$$

$$0 \times 1 = 0$$

$$128 + 64 + 8 + 4 = [204]_{10}$$

$$b) 1 \times 2^5 \quad 1 \times 2^4 \quad 1 \times 2^3 \quad 1 \times 2^2 \quad 0 \times 2^1 \quad 0 \times 2^0$$

$$1 \times 2 \times 2 \times 2 \times 2 \times 2 = 32$$

$$1 \times 2 \times 2 \times 2 \times 2 = 16$$

$$1 \times 2 \times 2 = 4$$

$$0 \times 2 = 0$$

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$$32 + 16 + 4 = [52]_{10}$$

$$c) \quad 1 \times 2^4 \quad 1 \times 2^3 \quad 1 \times 2^2 \quad 1 \times 2^1 \quad 1 \times 2^0$$

$$1 \times 2 \times 2 \times 2 \times 2 = 16$$

$$1 \times 2 \times 2 \times 2 = 8$$

$$1 \times 2 \times 2 = 4$$

$$1 \times 2 = 2$$

$$1 \times 1 = 1$$

$$16 + 8 + 4 + 2 + 1 = (31)_{10}$$

$$d) \quad 1 \times 2^6 \quad 0 \times 2^5 \quad 0 \times 2^4 \quad 1 \times 2^3 \quad 0 \times 2^2 \quad 0 \times 2^1 \quad 1 \times 2^0$$

$$1 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 64$$

$$0 \times 2 \times 2 \times 2 \times 2 \times 2 = 0$$

$$0 \times 2 \times 2 \times 2 \times 2 = 0$$

$$1 \times 2 \times 2 \times 2 = 8$$

$$0 \times 2 \times 2 = 0$$

$$0 \times 2 = 0$$

$$1 \times 1 = 1$$

$$64 + 8 + 1 = (73)_{10}$$

$$e) 1 \times 2^6 \quad 0 \times 2^5 \quad 0 \times 2^4 \quad 1 \times 2^3 \quad 1 \times 2^2 \quad 1 \times 2^1 \quad 0 \times 2^0$$

$$1 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 64$$

$$0 \times 2 \times 2 \times 2 \times 2 \times 2 = 0$$

$$0 \times 2 \times 2 \times 2 \times 2 = 0$$

$$1 \times 2 \times 2 \times 2 = 8$$

$$1 \times 2 \times 2 = 4$$

$$1 \times 2 = 2$$

$$0 \times 1 = 0$$

$$64 + 8 + 4 + 2 = (78)_{10}$$

$$f) 1 \times 2^6 \quad 0 \times 2^5 \quad 0 \times 2^4 \quad 1 \times 2^3 \quad 0 \times 2^2 \quad 1 \times 2^1 \quad 0 \times 2^0$$

$$1 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 64$$

$$0 \times 2 \times 2 \times 2 \times 2 \times 2 = 0$$

$$0 \times 2 \times 2 \times 2 \times 2 = 0$$

$$1 \times 2 \times 2 \times 2 = 8$$

$$0 \times 2 \times 2 = 0$$

$$1 \times 2 = 2$$

$$64 + 8 + 2 = (74)_{10}$$