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1. ^{5 4 3 2 1 0} 1 0 1 1 0 1

$$(1 \times 2^5) + (0 \times 2^4) + (1 \times 2^3) + (1 \times 2^2) + (0 \times 2^1) + (1 \times 2^0)$$

$$32 + 0 + 8 + 4 + 0 + 1 = 45_{//}$$

2. 3 4 5 6

$$(3 \times 8^3) + (4 \times 8^2) + (5 \times 8^1) + (6 \times 8^0)$$

$$3 \times 512 = 1536$$

$$4 \times 64 = 256$$

$$5 \times 8 = 40$$

$$6 \times 1 = 6 \quad 1838_{//}$$

3. (153)_{16}

$$1 \times 16^2 = 1 \times 256 = 256$$

$$5 \times 16^1 = 5 \times 16 = 80$$

$$3 \times 16^0 = 3 \times 1 = 3 \quad 339_{//}$$

4. 5 6 12 0 111000

$$5 \times 28 = 140$$

$$6 \times 14 = 84$$

$$12 \times 7 = 84$$

$$0 \times 1 = 0$$

$$111000$$

5. 127

$$(11 \times 8^1) + (2 \times 8^0) + (7 \times 8^0)$$

$$64 + 16 + 7 = 87_{//}$$

6. A 2 B

$$A \times 16^2 + 2 \times 16^1 + B \times 16^0$$

$$10 \times 256 = 2560$$

$$2 \times 16 = 32 \quad 2603_{//}$$

$$11 \times 1 = 11$$