

Number System Conversion Quiz

Name: _____

Decimal	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
HEX	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Binary	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
Octal	0	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17

No calculators are permitted on this quiz.

1. Convert 0100 0101 from binary to base 10 1. _____
2. Convert 65 from octal to binary 2. _____
3. Convert 1100 1001 0101 0010 from binary to hexadecimal 3. _____
4. Convert 1011 1101 from binary to base 10 4. _____
5. Convert 6 from base 8 to binary 5. _____
6. Convert 4b6 from hexadecimal to binary 6. _____
7. Convert 7 from octal to base 2 7. _____
8. Convert 176 from decimal to binary 8. _____
9. Convert fc1 from hexadecimal to binary 9. _____
10. Convert 010 001 101 from base 2 to octal 10. _____

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No calculators are permitted on this quiz.

1. Convert 121 from decimal to binary
2. Convert 5b88 from hexadecimal to binary
3. Convert 14 from base 8 to binary
4. Convert 52 from octal to binary
5. Convert 57 from base 8 to base 2
6. Convert 40 from octal to binary
7. Convert 25 from octal to binary
8. Convert 1001 0010 0110 1101 from binary to base 16
9. Convert 12 from base 8 to binary
10. Convert 29 from decimal to binary

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

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Octal	0	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17

No calculators are permitted on this quiz.

1. Convert 61 from octal to base 2 1. _____
2. Convert 0101 1010 0000 0100 from base 2 to base 16 2. _____
3. Convert 1100 1001 1010 0110 from binary to hexadecimal 3. _____
4. Convert 100 001 001 from binary to octal 4. _____
5. Convert 5 from octal to binary 5. _____
6. Convert 1011 1000 0000 0111 from binary to base 16 6. _____
7. Convert 011 000 101 from binary to base 8 7. _____
8. Convert 61 from octal to base 2 8. _____
9. Convert 1011 1010 from binary to base 10 9. _____
10. Convert 1000 1000 0001 1100 from base 2 to hexadecimal 10. _____

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Binary	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
Octal	0	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17

No calculators are permitted on this quiz.

1. Convert 24 from base 8 to base 2 1. _____
2. Convert 7675 from hexadecimal to binary 2. _____
3. Convert 204 from decimal to base 2 3. _____
4. Convert 0110 0010 0011 1010 from binary to hexadecimal 4. _____
5. Convert 64 from base 8 to base 2 5. _____
6. Convert b1f3 from base 16 to binary 6. _____
7. Convert 8bed from base 16 to binary 7. _____
8. Convert 1000 1000 0100 0011 from base 2 to base 16 8. _____
9. Convert 59ae from hexadecimal to binary 9. _____
10. Convert 9902 from base 16 to binary 10. _____

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Binary	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
Octal	0	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17

No calculators are permitted on this quiz.

1. Convert 12 from base 10 to binary 1. _____
2. Convert 52 from base 8 to base 2 2. _____
3. Convert 0011 1101 0100 0101 from base 2 to hexadecimal 3. _____
4. Convert 1111 0010 from base 2 to decimal 4. _____
5. Convert 47 from base 8 to binary 5. _____
6. Convert 111 101 011 from base 2 to base 8 6. _____
7. Convert 701c from base 16 to binary 7. _____
8. Convert 0101 1110 from base 2 to decimal 8. _____
9. Convert 0110 0110 from base 2 to decimal 9. _____
10. Convert 0001 0011 0000 0010 from binary to hexadecimal 10. _____

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Octal	0	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17

No calculators are permitted on this quiz.

1. Convert 1010 0100 from base 2 to decimal 1. _____
2. Convert 1001 1001 from base 2 to decimal 2. _____
3. Convert b09d from hexadecimal to binary 3. _____
4. Convert 55d8 from hexadecimal to base 2 4. _____
5. Convert 011 010 011 from base 2 to base 8 5. _____
6. Convert 27 from base 8 to base 2 6. _____
7. Convert 118 from base 10 to binary 7. _____
8. Convert 110 111 001 from binary to octal 8. _____
9. Convert 1011 0110 1100 1101 from base 2 to base 16 9. _____
10. Convert 0100 1110 from base 2 to decimal 10. _____

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No calculators are permitted on this quiz.

- Convert 6dfc from hexadecimal to base 2 1. _____
- Convert 64 from octal to binary 2. _____
- Convert 114 from base 10 to base 2 3. _____
- Convert 15 from base 8 to binary 4. _____
- Convert 0110 0011 from base 2 to decimal 5. _____
- Convert 102 from base 10 to binary 6. _____
- Convert 1110 0011 0101 0000 from binary to base 16 7. _____
- Convert 150 from decimal to base 2 8. _____
- Convert aa40 from hexadecimal to base 2 9. _____
- Convert a0d1 from base 16 to base 2 10. _____

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Octal	0	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17

No calculators are permitted on this quiz.

1. Convert 0110 0010 from base 2 to decimal 1. _____
2. Convert 1000 1101 from binary to base 10 2. _____
3. Convert f558 from hexadecimal to base 2 3. _____
4. Convert 80 from base 10 to base 2 4. _____
5. Convert 0010 0100 0001 0010 from binary to hexadecimal 5. _____
6. Convert 1010 0110 0100 1100 from binary to base 16 6. _____
7. Convert 1101 0111 0000 1010 from binary to hexadecimal 7. _____
8. Convert 7191 from base 16 to base 2 8. _____
9. Convert 0011 0100 from binary to decimal 9. _____
10. Convert 1010 1111 from base 2 to base 10 10. _____

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Octal	0	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17

No calculators are permitted on this quiz.

1. Convert 1001 1000 0100 1111 from binary to hexadecimal 1. _____
2. Convert 250 from decimal to base 2 2. _____
3. Convert 0111 0100 1011 1000 from base 2 to base 16 3. _____
4. Convert 1000 0100 0011 0000 from base 2 to hexadecimal 4. _____
5. Convert 4aa6 from base 16 to binary 5. _____
6. Convert 011 101 111 from binary to octal 6. _____
7. Convert 011 101 010 from binary to octal 7. _____
8. Convert 2319 from hexadecimal to base 2 8. _____
9. Convert 0011 1101 1100 1000 from binary to hexadecimal 9. _____
10. Convert 0010 0111 0011 1011 from binary to base 16 10. _____