



Binary system

Conversions, Adding and subtraction

Grade 12 Physics
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Convert the following binary digits into decimal system:

1	111	101010	1000000
11	1111	11010101	1100000000
10	1011	1011111111	10000000000000
001	00111	11111111001	001000000000
101	101111	1011111	101000000000
0011	00111111	0011111	001110101010
1011	10111111	10111111	101111010101
1111	11111111	111111111111	111110101010
10000	100001111	10000110101010	1000011111111
10001	100011111	10001000011	10001111111111
10010	100111110	10010000001	100101111111
10011	10011111	10011010101	100111111111
10100	1011111100	10100101010	1010011111111
10110	10110111010	10110101010	10110111111111
10111	10111101010	1011111111	101110101010101
11000	110001010	11000000011	110001010101101
11001	110010101	11001010101	11001000001111
11011	110110101	110111111001	1101010101010
11100	1110011	111001111111	111001111111
11101	1111101001	111011111111	111011111111
11110	1111000111011	11110111111	11110111111111
1111	11110000000	111111111111	111111111111

Convert the following decimals into binary system:

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104
105	106	107	108	109	110	111	112
113	114	115	116	117	118	119	120