

Bitwise Arithmetic Worksheet (32-bit version)

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0	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	
31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	

0	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	
31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	

0	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	
31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	

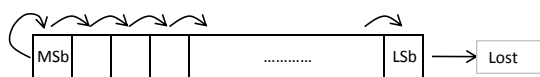
Powers of 2

n	Decimal	Hexadecimal	n	Decimal	Hexadecimal	n	Decimal	Hexadecimal	n	Decimal	Hexadecimal
0	1	0x0000_0001	8	256	0x0000_0100	16	65536	0x0001_0000	24	16777216	0x0100_0000
1	2	0x0000_0002	9	512	0x0000_0200	17	131072	0x0002_0000	25	33554432	0x0200_0000
2	4	0x0000_0004	10	1024	0x0000_0400	18	262144	0x0004_0000	26	67108864	0x0400_0000
3	8	0x0000_0008	11	2048	0x0000_0800	19	524288	0x0008_0000	27	134217728	0x0800_0000
4	16	0x0000_0010	12	4096	0x0000_1000	20	1048576	0x0010_0000	28	268435456	0x1000_0000
5	32	0x0000_0020	13	8192	0x0000_2000	21	2097152	0x0020_0000	29	536870912	0x2000_0000
6	64	0x0000_0040	14	16384	0x0000_4000	22	4194304	0x0040_0000	30	1073741824	0x4000_0000
7	128	0x0000_0080	15	32768	0x0000_8000	23	8388608	0x0080_0000	31	2147483648	0x8000_0000

Conversion Table

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

Arithmetic Shift Right



Logical Shift Right

