

# 305.575

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305	1	0.575 * 2 = 1.15	1	135	1
152	0	0.15 * 2 = 0.3	0	67	1
76	0	0.3 * 2 = 0.6	0	33	1
38	0	0.6 * 2 = 1.2	1	16	0
19	1	0.2 * 2 = 0.4	0	8	0
9	1	0.4 * 2 = 0.8	0	4	0
4	0	0.8 * 2 = 1.6	1	2	0
2	0	0.6 * 2 = 1.2	1	1	1
1	1	0.2 * 2 = 0.4	0		
		0.4 * 2 = 0.8	0		
		0.8 * 2 = 1.6	1		
		0.6 * 2 = 1.2	1		
		0.2 * 2 = 0.4	0		
		0.4 * 2 = 0.8	0		
		0.8 * 2 = 1.6	1		

s = 0

m = 100110001.100100110011001<sub>2</sub>

e = 8 → 135 → 10000111<sub>2</sub>

305.575<sub>10</sub> = 01000011100110001100100110011001<sub>2</sub> = 4398C999<sub>16</sub>

# 3572.573

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3572	0	0.573 * 2 = 1.146	1	138	0
1786	0	0.146 * 2 = 0.292	0	69	1
893	1	0.292 * 2 = 0.584	0	34	0
446	0	0.584 * 2 = 1.168	1	17	1
223	1	0.168 * 2 = 0.336	0	8	0
111	1	0.336 * 2 = 0.672	0	4	0
55	1	0.672 * 2 = 1.344	1	2	0
27	1	0.344 * 2 = 0.688	0	1	1
13	1	0.688 * 2 = 1.376	1		
6	0	0.376 * 2 = 0.752	0		
3	1	0.752 * 2 = 1.504	1		
1	1	0.504 * 2 = 1.008	1		

$$s = 0$$

$$m = 110111110100.100100101011_2$$

$$e = 11 \rightarrow 138 \rightarrow 10001010_2$$

$$3572.573_{10} = 01000101010111110100100100101011_2 = 455F492B_{16}$$

# 305.537

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305	1	0.537 * 2 = 1.074	1	135	1
152	0	0.074 * 2 = 0.148	0	67	1
76	0	0.148 * 2 = 0.296	0	33	1
38	0	0.296 * 2 = 0.592	0	16	0
19	1	0.592 * 2 = 1.184	1	8	0
9	1	0.184 * 2 = 0.368	0	4	0
4	0	0.368 * 2 = 0.736	0	2	0
2	0	0.736 * 2 = 1.472	1	1	1
1	1	0.472 * 2 = 0.944	0		
		0.944 * 2 = 1.888	1		
		0.888 * 2 = 1.776	1		
		0.776 * 2 = 1.552	1		
		0.552 * 2 = 1.104	1		
		0.104 * 2 = 0.208	0		
		0.208 * 2 = 0.416	0		

$$s = 0$$

$$m = 100110001.100010010111100_2$$

$$e = 8 \rightarrow 135 \rightarrow 10000111_2$$

$$305.537_{10} = 01000011100110001100010010111100_2 = 4398C4BC_{16}$$

## AB350000

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A = 1010	$2^{-2}$	+
B = 1011	$2^{-3}$	+
3 = 0011	$2^{-5}$	+
5 = 0101	$2^{-7}$	+
0 = 0000		= 0.4140625
0 = 0000		
0 = 0000		
0 = 0000		

$$s = 1$$

$$m = .011010100000000000000000_2$$

$$e = 01010110_2 \rightarrow 86_{10} \rightarrow -41_2$$

$$AB350000_{16} = 10101011001101010000000000000000_2 = 0.4140625_{10}$$

$$| = 0.0$$
$$m = .0000000000000000000000000000_2$$
$$e = 01000110_2 \rightarrow 70_{10} \rightarrow -57_2$$
$$23000000_{16} = 00100011000000000000000000000000_2 = 0.0_{10}$$