

【1】次の表を完成せよ。

n	2 ⁿ	n	2 ⁿ	n	2 ⁿ
1	2	26		0	1
2		27		-1	0.5
3		28		-2	
4		29		-3	
5	32	30	1073741824	-4	
6		31		-5	0.03125
7		32		-6	
8		33		-7	
9		34		-8	
10	1024	35	34359738368	-9	
11		36		-10	0.0009765625
12		37		-11	
13		38		-12	
14		39		-13	
15	32768	40	1099511627776	-14	
16		41		-15	0.000030517578125
17		42		-16	
18		43		-17	
19		44		-18	
20	1048576	45	35184372088832	-19	
21		46		-20	0.00000095367431640625
22		47			
23		48			
24		49			
25	33554432	50	1125899906842624		

指数法則 $a^m \times a^n = a^{m+n}$
 $(a^m)^n = a^{mn}$
 $(ab)^n = a^n b^n$

(3) $140737488355328 \times 0.0001220703125 \div 67108864$

(4) $4 \div 0.0009765625 \times 17179869184$

(5) $(8796093022208)^2 \times (0.0000152587890625)^3$

(6) $(0.0078125)^5 \div (0.03125)^4 \times (524288)^3$

(7)
$$\frac{(262144)^2 \times 2097152}{33554432 \times 8388608}$$

(8)
$$\frac{16384 \times 137438953472 \div 0.0625}{134217728 \div 0.001953125 \times 64}$$

(9) $\sqrt{68719476736} \times \sqrt{4194304} \div \sqrt{268435456}$

(10) $\sqrt{0.00006103515625} \div \sqrt{131072} \times \sqrt{536870912}$

(11)
$$\frac{8 \times \sqrt{65536}}{\sqrt{0.00390625} \times \sqrt{1048576}}$$

(12)
$$\frac{\sqrt{1099511627776} \times \sqrt{0.000244140625} \div \sqrt{1125899906842624}}{\sqrt{0.015625} \div \sqrt{4294967296} \times \sqrt{16777216}}$$

【2】上の2ⁿ表と指数法則を使って、次の計算をせよ。

(1) $17592186044416 \times 16 = 2^{\square} \times 2^{\square} = 2^{\square} =$

(2) $1073741824 \div 0.00048828125$