

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$ $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$ $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$ $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$ $\frac{1}{8} \times \frac{1}{8} = \frac{1}{64}$
 $\frac{1}{2} \times \frac{1}{16} = \frac{1}{32}$ $\frac{1}{4} \times \frac{1}{16} = \frac{1}{64}$ $\frac{1}{8} \times \frac{1}{16} = \frac{1}{128}$ $\frac{1}{16} \times \frac{1}{16} = \frac{1}{256}$ $\frac{1}{32} \times \frac{1}{32} = \frac{1}{1024}$ $\frac{1}{64} \times \frac{1}{64} = \frac{1}{4096}$
 $\frac{1}{128} \times \frac{1}{128} = \frac{1}{16384}$ $\frac{1}{256} \times \frac{1}{256} = \frac{1}{65536}$ $\frac{1}{512} \times \frac{1}{512} = \frac{1}{262144}$ $\frac{1}{1024} \times \frac{1}{1024} = \frac{1}{1048576}$ $\frac{1}{2048} \times \frac{1}{2048} = \frac{1}{4194304}$ $\frac{1}{4096} \times \frac{1}{4096} = \frac{1}{16777216}$
 $\frac{1}{8192} \times \frac{1}{8192} = \frac{1}{67108864}$ $\frac{1}{16384} \times \frac{1}{16384} = \frac{1}{268435456}$ $\frac{1}{32768} \times \frac{1}{32768} = \frac{1}{1073743872}$ $\frac{1}{65536} \times \frac{1}{65536} = \frac{1}{4294967040}$ $\frac{1}{131072} \times \frac{1}{131072} = \frac{1}{17179869184}$ $\frac{1}{262144} \times \frac{1}{262144} = \frac{1}{68438966016}$
 $\frac{1}{524288} \times \frac{1}{524288} = \frac{1}{274877986304}$ $\frac{1}{1048576} \times \frac{1}{1048576} = \frac{1}{1101006760448}$ $\frac{1}{2097152} \times \frac{1}{2097152} = \frac{1}{4404027041792}$ $\frac{1}{4194304} \times \frac{1}{4194304} = \frac{1}{17616108167104}$ $\frac{1}{8388608} \times \frac{1}{8388608} = \frac{1}{70464432668416}$ $\frac{1}{16777216} \times \frac{1}{16777216} = \frac{1}{281857730673792}$
 $\frac{1}{33554432} \times \frac{1}{33554432} = \frac{1}{1127430922695104}$ $\frac{1}{67108864} \times \frac{1}{67108864} = \frac{1}{4513723690780288}$ $\frac{1}{134217728} \times \frac{1}{134217728} = \frac{1}{18054895163121152}$ $\frac{1}{268435456} \times \frac{1}{268435456} = \frac{1}{72219580652484608}$ $\frac{1}{536870912} \times \frac{1}{536870912} = \frac{1}{288878322609938432}$ $\frac{1}{1073743824} \times \frac{1}{1073743824} = \frac{1}{1155513290439753728}$
 $\frac{1}{2147487648} \times \frac{1}{2147487648} = \frac{1}{4622453161759014976}$ $\frac{1}{4294975296} \times \frac{1}{4294975296} = \frac{1}{18509812647036059904}$ $\frac{1}{8589950592} \times \frac{1}{8589950592} = \frac{1}{74039250588144239616}$ $\frac{1}{17179901184} \times \frac{1}{17179901184} = \frac{1}{296157002352576958464}$ $\frac{1}{34359802368} \times \frac{1}{34359802368} = \frac{1}{1184628009410307873856}$ $\frac{1}{68719604736} \times \frac{1}{68719604736} = \frac{1}{4738512037641231495424}$
 $\frac{1}{137439209472} \times \frac{1}{137439209472} = \frac{1}{18954048150564925981696}$ $\frac{1}{274878418944} \times \frac{1}{274878418944} = \frac{1}{75816192602259703927040}$ $\frac{1}{549756837888} \times \frac{1}{549756837888} = \frac{1}{303264770409038815708160}$ $\frac{1}{1099513675776} \times \frac{1}{1099513675776} = \frac{1}{1213059081636155262832640}$ $\frac{1}{2199027351552} \times \frac{1}{2199027351552} = \frac{1}{4852236326544621051330816}$ $\frac{1}{4398054703104} \times \frac{1}{4398054703104} = \frac{1}{19408945306178484205323264}$
 $\frac{1}{8796109406208} \times \frac{1}{8796109406208} = \frac{1}{77313810024713936821293056}$ $\frac{1}{17592218812416} \times \frac{1}{17592218812416} = \frac{1}{310135240098855747285172224}$ $\frac{1}{35184437624832} \times \frac{1}{35184437624832} = \frac{1}{1240540960395422989140688960}$ $\frac{1}{70368875249664} \times \frac{1}{70368875249664} = \frac{1}{4962163841581691956562755840}$ $\frac{1}{140737750499328} \times \frac{1}{140737750499328} = \frac{1}{19848655366326767826251023360}$ $\frac{1}{281475500998656} \times \frac{1}{281475500998656} = \frac{1}{79394621465307071305004093440}$
 $\frac{1}{562951001997312} \times \frac{1}{562951001997312} = \frac{1}{317578485861228285220016373760}$ $\frac{1}{1125902003994624} \times \frac{1}{1125902003994624} = \frac{1}{1270313943444913140880065495040}$ $\frac{1}{2251804007989248} \times \frac{1}{2251804007989248} = \frac{1}{5081255773779652563520261980160}$ $\frac{1}{4503608015978496} \times \frac{1}{4503608015978496} = \frac{1}{20325023095118610254081047920640}$ $\frac{1}{9007216031956992} \times \frac{1}{9007216031956992} = \frac{1}{81300092380474441016324191682560}$ $\frac{1}{18014432063913984} \times \frac{1}{18014432063913984} = \frac{1}{325200369521897764065296766730240}$
 $\frac{1}{36028864127827968} \times \frac{1}{36028864127827968} = \frac{1}{1300801478087591056261187066920960}$ $\frac{1}{72057728255655936} \times \frac{1}{72057728255655936} = \frac{1}{5203205912350364225044748267683840}$ $\frac{1}{144115456511311872} \times \frac{1}{144115456511311872} = \frac{1}{20812823649401456900178993070735360}$ $\frac{1}{288230913022623744} \times \frac{1}{288230913022623744} = \frac{1}{83251294597605827600715972282941440}$ $\frac{1}{576461826045247488} \times \frac{1}{576461826045247488} = \frac{1}{333005178390423310402863889131765760}$ $\frac{1}{1152923652090494976} \times \frac{1}{1152923652090494976} = \frac{1}{133202071356169324$

(1) $\frac{1}{2} \log \frac{1}{2}$

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$\frac{1}{2} \approx 0.5$
 $\frac{1}{3} \approx 0.33$
 $\frac{1}{4} \approx 0.25$
 $\frac{1}{5} \approx 0.2$
 $\frac{1}{6} \approx 0.16$
 $\frac{1}{7} \approx 0.14$
 $\frac{1}{8} \approx 0.125$
 $\frac{1}{9} \approx 0.11$
 $\frac{1}{10} \approx 0.1$
 $\frac{1}{11} \approx 0.09$
 $\frac{1}{12} \approx 0.08$
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