

1. $\frac{1}{2}, \frac{1}{3}, \frac{1}{6}$
2. $\frac{1}{2}, \frac{1}{3}, \frac{1}{6}, \frac{1}{12}, \frac{1}{24}, \frac{1}{48}, \frac{1}{96}, \frac{1}{192}, \frac{1}{384}, \frac{1}{768}, \frac{1}{1536}, \frac{1}{3072}, \frac{1}{6144}, \frac{1}{12288}, \frac{1}{24576}, \frac{1}{49152}, \frac{1}{98304}, \frac{1}{196608}, \frac{1}{393216}, \frac{1}{786432}, \frac{1}{1572864}, \frac{1}{3145728}, \frac{1}{6291456}, \frac{1}{12582912}, \frac{1}{25165824}, \frac{1}{50331648}, \frac{1}{100663296}, \frac{1}{201326592}, \frac{1}{402653184}, \frac{1}{805306368}, \frac{1}{1610612736}, \frac{1}{3221225472}, \frac{1}{6442450944}, \frac{1}{12884901888}, \frac{1}{25769803776}, \frac{1}{51539607552}, \frac{1}{103079215104}, \frac{1}{206158430208}, \frac{1}{412316860416}, \frac{1}{824633720832}, \frac{1}{1649267441664}, \frac{1}{3298534883328}, \frac{1}{6597069766656}, \frac{1}{13194139533312}, \frac{1}{26388279066624}, \frac{1}{52776558133248}, \frac{1}{105553116266496}, \frac{1}{211106232532992}, \frac{1}{422212465065984}, \frac{1}{844424930131968}, \frac{1}{1688849860263936}, \frac{1}{3377699720527872}, \frac{1}{6755399441055744}, \frac{1}{13510798882111488}, \frac{1}{27021597764222976}, \frac{1}{54043195528445952}, \frac{1}{108086391056891904}, \frac{1}{216172782113783808}, \frac{1}{432345564227567616}, \frac{1}{864691128455135232}, \frac{1}{1729382256910270464}, \frac{1}{3458764513820540928}, \frac{1}{6917529027641081856}, \frac{1}{13835058055282163712}, \frac{1}{27670116110564327424}, \frac{1}{55340232221128654848}, \frac{1}{110680464442257309696}, \frac{1}{221360928884514619392}, \frac{1}{442721857769029238784}, \frac{1}{885443715538058477568}, \frac{1}{1770887431076116955136}, \frac{1}{3541774862152233910272}, \frac{1}{7083549724304467820544}, \frac{1}{14167099448608935641088}, \frac{1}{28334198897217871282176}, \frac{1}{56668397794435742564352}, \frac{1}{113336795588871485128704}, \frac{1}{226673591177742970257408}, \frac{1}{453347182355485940514816}, \frac{1}{906694364710971881029632}, \frac{1}{1813388729421943762059264}, \frac{1}{3626777458843887524118528}, \frac{1}{7253554917687775048237056}, \frac{1}{14507109835375550096474112}, \frac{1}{29014219670751100192948224}, \frac{1}{58028439341502200385896448}, \frac{1}{116056878683004400771792896}, \frac{1}{232113757366008801543585792}, \frac{1}{464227514732017603087171584}, \frac{1}{928455029464035206174343168}, \frac{1}{1856910058928070412348686336}, \frac{1}{3713820117856140824697372672}, \frac{1}{7427640235712281649394745344}, \frac{1}{14855280471424563298789490688}, \frac{1}{29710560942849126597578981376}, \frac{1}{59421121885698253195157962752}, \frac{1}{118842243771396506390315925504}, \frac{1}{237684487542793012780631851008}, \frac{1}{475368975085586025561263702016}, \frac{1}{950737950171172051122527404032}, \frac{1}{1901475900342344102245054808064}, \frac{1}{3802951800684688204490109616128}, \frac{1}{7605903601369376408980219232256}, \frac{1}{15211807202738752817960438464512}, \frac{1}{30423614405477505635920876929024}, \frac{1}{60847228810955011271841753858048}, \frac{1}{121694457621910022543683507716096}, \frac{1}{243388915243820045087367015432192}, \frac{1}{486777830487640090174734030864384}, \frac{1}{973555660975280180349468061728768}, \frac{1}{1947111321950560360698936123457536}, \frac{1}{3894222643901120721397872246915072}, \frac{1}{7788445287802241442795744493830144}, \frac{1}{15576890575604482885591488987660288}, \frac{1}{31153781151208965771182977975320576}, \frac{1}{62307562302417931542365955950641152}, \frac{1}{124615124604835863084731911901282304}, \frac{1}{249230249209671726169463823802564608}, \frac{1}{498460498419343452338927647605129216}, \frac{1}{996920996838686904677855295210258432}, \frac{1}{1993841993677373809355710590420516864}, \frac{1}{3987683987354747618711421180841033728}, \frac{1}{7975367974709495237422842361682067456}, \frac{1}{15950735949418990474845684723364134912}, \frac{1}{31901471898837980949691369446728269824}, \frac{1}{63802943797675961899382738893456539648}, \frac{1}{127605887595351923798765477786913079296}, \frac{1}{255211775190703847597530955573826158592}, \frac{1}{510423550381407695195061911147652317184}, \frac{1}{1020847100762815390390123822295304634368}, \frac{1}{2041694201525630780780247644590609268736}, \frac{1}{4083388403051261561560495289181218537472}, \frac{1}{8166776806102523123120990578362437074944}, \frac{1}{16333553612205046246241981156724874149888}, \frac{1}{32667107224410092492483962313449748299776}, \frac{1}{65334214448820184984967924626899496599552}, \frac{1}{130668428897640369969935849253798993199104}, \frac{1}{261336857795280739939871698507597986398208}, \frac{1}{522673715590561479879743397015195972796416}, \frac{1}{1045347431181122959759486794030391945592832}, \frac{1}{2090694862362245919518973588060783891185664}, \frac{1}{4181389724724491839037947176121567782371328}, \frac{1}{8362779449448983678075894352243135564742656}, \frac{1}{1672555889889796735615178870448$

