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On Multiplicative Sidon Sets

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(Submitted on 6 Jul 2011)

Fix integers $b>a\gq1$ with $g:=\gcd(a,b)$. A set $s\subseteq\mathbb{N}$ is \emph{\$\{a,b\}\$-multiplicative} if \$ax\neq by\$ for all \$x,y\in S\$. For all \$n\$, we determine an \$\{a,b\}\$-multiplicative set with maximum cardinality in \$[n] \$, and conclude that the maximum density of an \$\{a,b\}\$-multiplicative set is \$\frac{b}{b+g}\$.

Subjects: **Number Theory (math.NT)**; Combinatorics (math.CO)

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