

is there a name for these sets?

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I have a question related to number theory. For positive integers n and k , define $S(n, k)$ by $S(n, k) = \{x: \gcd(n, x) = k\}$. For example, $S(12, 3)$ is $\{3, 9\}$.

The question is, is there a name for these $S(n, k)$ sets? and where could I find more info about them? I didn't see anything in my number theory book.

Thanks,
jq

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