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Title: On the simultaneous equations $\sigma(2^a) = p^{f_1} q^{g_1}$, $\sigma(3^b) = p^{f_2} q^{g_2}$, $\sigma(5^c) = p^{f_3} q^{g_3}$

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Let $\sigma(N)$ denote the sum of divisors of N . We shall solve the simultaneous equations $\sigma(2^a) = p^{f_1} q^{g_1}$, $\sigma(3^b) = p^{f_2} q^{g_2}$, $\sigma(5^c) = p^{f_3} q^{g_3}$ with p, q distinct primes.

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