A mathematics teacher wants her two intelligent students B and S to derive the exact value of a 2-digit natural number by revealing the number of positive divisors of \( n \) to S and the sum of the digits of \( n \) to B. A brief conversation follows between S and B:

B: I cannot determine \( n \).

S: I can’t either but I know whether \( n \) is even or not.

B: Now I know what \( n \) is.

S: So do I!

Assuming both the students are honest and that their statements are backed by perfect logical reasoning, determine \( n \) and justify.