12. The *primorial* of a number is the product of all of the prime numbers less than or equal to that number. For example, the primorial of 6 is $2 \times 3 \times 5 = 30$. How many different whole numbers have a primorial of 210?

A 1   B 2   C 3   D 4   E 5

12. **D** The primorial of 7 is $2 \times 3 \times 5 \times 7 = 210$. As 8, 9 and 10 are not prime numbers, they also have a primorial of 210. The primorial of 11 is $2 \times 3 \times 5 \times 7 \times 11 = 2310$. Hence there are exactly four different whole numbers which have a primorial of 210.