Prime Numbers

About These Problems

A prime number is just a number that is only divisible by itself and 1. The only even number that is prime is 2. A prime factorization of a number is a factorization of it using only prime numbers.

Question. Which of the following is the correct prime factorization of 60.

1. 2*2*3*5
2. 2*3*10
3. 2*3*5*7
4. 2*2*2*5
5. 2*2*2*2*5

Answer. 1: The only option above equal to 60 is 1 and 2. But in option 2 they use 10 which is not a prime so that leaves option 1.