

**Quiz 1.** *True/False:* The number 1 is prime.

**Solution.** The statement is *false*. A prime number is an integer greater than 1 that can only be factored as the product of one and itself. So for example, the integer 11 is prime because we can only factor 11 as  $11 = 1 \cdot 11$ . However, the integer 12 is not prime because we can write  $12 = 2 \cdot 6$ , neither of which are 1 or 12.