



1. Which of the following cannot be written as the sum of two prime numbers?

A 5

B 7

C 9

D 10

E 11

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1. **E** If an odd number is written as the sum of two prime numbers then one of those primes is 2, since 2 is the only even prime. However, 9 is not prime so 11 cannot be written as the sum of two primes. Note that $5 = 2 + 3$; $7 = 2 + 5$; $9 = 2 + 7$; $10 = 3 + 7$, so 11 is the only alternative which is not the sum of two primes.