

266. If  $n$  is an integer, is  $n$  even?

- (1)  $n^2 - 1$  is an odd integer.
- (2)  $3n + 4$  is an even integer.

**Arithmetic Properties of numbers**

Determine if the integer  $n$  is even.

- (1) Since  $n^2 - 1$  is odd,  $n^2$  is even and so  $n$  is even; SUFFICIENT.
- (2) Since  $3n + 4$  is even,  $3n$  is even and so  $n$  is even; SUFFICIENT.

**The correct answer is D;  
each statement alone is sufficient.**