

1

Is the positive integer  $N$  a perfect square?

- (1) The number of distinct factors of  $N$  is even.
- (2) The sum of all distinct factors of  $N$  is even.

2

If the average (arithmetic mean) of  $n$  consecutive odd integers is 10, what is the least of the integers?

- (1) The range of the  $n$  integers is 14
- (2) The greatest of the  $n$  integers is 17"

3

Is  $M < 0$ ?

- (1)  $-M = |-M|$
- (2)  $M^2 = 9$

4

If  $n$  is an integer greater than 1, is  $3^n - 2^n$  divisible by 35?

- (1)  $n$  is divisible by 15.
- (2)  $n$  is divisible by 18.