Exercise 1.1

1. If a and b are two odd positive integers such that a > b, then prove that one of the two numbers (a+b)/2 and (a-b)/2 is odd and the other is even.

Solution:

We know that any odd positive integer is of the form 4q+1 or, 4q+3 for some whole number q.

Now that it's given a > b

So, we can choose a= 4q+3 and b= 4q+1.

$\therefore \quad (a+b)/2 = [(4q+3) + (4q+1)]/2$

$\Rightarrow \quad (a+b)/2 = (8q+4)/2$

$\Rightarrow \quad (a+b)/2 = 4q+2 = 2(2q+1)$ which is clearly an even number.

Now, doing (a-b)/2

$\Rightarrow \quad (a-b)/2 = [(4q+3)-(4q+1)]/2$

$\Rightarrow \quad (a-b)/2 = (4q+3-4q-1)/2$

$\Rightarrow \quad (a-b)/2 = (2)/2$

$\Rightarrow \quad (a-b)/2 = 1$ which is an odd number.

Hence, one of the two numbers (a+b)/2 and (a-b)/2 is odd and the other is even.

2. Prove that the product of two consecutive positive integers is divisible by 2.

Solution:

Let's consider two consecutive positive integers as (n-1) and n.

$\therefore \quad$ Their product = (n-1) n

$$= n^2 - n$$

And then we know that any positive integer is of the form 2q or 2q+1. (From Euclid's division lemma for b= 2)

So, when n= 2q

We have,

$\Rightarrow \quad n^2 - n = (2q)^2 - 2q$

$\Rightarrow \quad n^2 - n = 4q^2 - 2q$

$\Rightarrow \quad n^2 - n = 2(2q^2 - q)$

Thus, $n^2 - n$ is divisible by 2.

Now, when n= 2q+1

We have,

$\Rightarrow \quad n^2 - n = (2q+1)^2 - (2q-1)$

$\Rightarrow \quad n^2 - n = (4q^2 + 4q + 1 - 2q + 1)$

$\Rightarrow \quad n^2 - n = (4q^2 + 2q + 2)$

$\Rightarrow \quad n^2 - n = 2(2q^2 + q + 1)$

Thus, $n^2 - n$ is divisible by 2 again.

Hence, the product of two consecutive positive integers is divisible by 2.

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