## CBSEASSISTANCE.COM

## REAL NUMBERS

## **ASSIGNMENT 1**

1.	H.C.F. of two consecutive ev	ven numbers is:	
a.	0 b. 1	c. 4	d. 2
2.	If the HCF of 85 and 153 is expressible in the form of $85n - 153$ , then the value of $n$ is:		
a.	3 b. 2	c. 4	d. 1
3.	Rational number $\frac{p}{q}$ , $q \neq 0$ , will be terminating decimal if the prime factorization of q is or		
	the form. ( $m$ and $n$ are non-negative integers)		
a.	$2^m \times 3^n$ b. $2^m \times 5^n$	c. $3^m \times 5^n$ d. $3^m \times 7^n$	
4.	$119^2 - 111^2$ is:		
a.	Prime number	b. composite number	
c.	an odd prime number	d. an odd composite number	
5.	Prove that $\frac{2\sqrt{3}}{5}$ is irrational.		
6.	Is 7 x 6 x 5 x 4 x 3 x 2 x 1 + 5 a composite number? Justify your number.		
7.	Show that $4^n$ can never end with the digit zero for any natural number $n$ .		

form 9q, 9q + 1, or 9q + 8 for some integer q.

10. Show that any positive odd integer is of the form 4q + 1 or 4q + 3 where q is a positive integer.

9. Use Euclid's division lemma to show that cube of any positive integer is either of the

8. If d is the HCF of 45 and 27, find x, y satisfying d = 27x + 45y.

11. An army contingent of 616 members is to march behind an army band of 32 members in a parade. The two groups are to march in the same number of columns. What is the maximum number of columns in which they can march?