KIIT WORLD SCHOOL

ASSIGNMENT – X CLASS

1. Given HCF (306, 657) = 9, find LCM (306, 657)
2. Let $a= 4^{n}$ where n is a natural number. Check whether there is any value of n for which $4^{n}$ ends with a digit zero.
3. Show that any positive odd integer is of the form 6p + 1 or 6p + 5 where p is some integer.
4. Show that any positive integer is of the form 8p, 8p + 2, 8p + 4 and 8p + 6 where p is some integer.
5. By euclid’s division algorithm show that the square of any positive integer is of the form 3n or 3n + 1.
6. Prove that

(a) $\sqrt{2}$ is irrational (b)3+2√5 is irrational

1. Find the HCF and LCM of 6,72 and 240 using prime factorization method
2. Explain why 3x5x11+11 is a composite method.
3. On a morning walk 3 persons step off together and their step measure 40cm, 42cm and 45cm respectively. What is the minimum distance each should walk so that each can cover the same distance .