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CLASS: X SUBJECT: MATHEMATICS

TOPIC: REAL NUMBERS

 If 7x5x3x2 + 3 is composite number? Justify your answer 	
2. Show that any positive odd integer is of the form 4q + 1 or 4q +3 where q is a positive integer	
3. Prove that $\sqrt{2} + \sqrt{5}$ is irrational	
4. Use Euclid's Division Algorithms to find the H.C.F of a) 135 and 225	(45)
b) 4052 and 12576	(4)
c) 270, 405 and 315	
5. Prove that 5 - 2v3 is an irrational number	
6. Find the HCF and LCM of 26 and 91 and verify that LCM X HCF = Product of two numbers	(13,182)
7. Explain why 29 is a terminating decimal expansion	
$2^3 \times 5^3$	
8. given that LCM (77, 99) = 693, find the HCF (77, 99)	(11)
9. Find the greatest number which exactly divides 280 and 1245 leaving remainder 4 and 3	(138)
10. Prove that v2 is irrational	
11. The LCM of two numbers is 64699, their HCF is 97 and one of the numbers is 2231. Find the other	(2813)
12. If HCF (6, a) = 2 and LCM (6, a) = 60 then find a	(20)
13. Two numbers are in the ratio 15: 11. If their HCF is 13 and LCM is 2145 then find the numbers	(195,143)
14. Express 0.363636 in the form a/b	(4/11)
15. Find the HCF 52 and 117 and express it in form 52x + 117y	
16. Write the HCF of smallest composite number and smallest prime number	
17. Write whether $2\sqrt{45} + 3\sqrt{20}$ on simplification give a rational or an irrational number	
2\15	

2√5