

## Answers

4. a real number which cannot be represented in the form of  $p/q$  where  $p$  and  $q$  are integers and  $q$  is not equal to zero.
5. No. example 5 is real but not irrational
6. Sum of 2 integers is always an integer. Example  $3 + 4 = 7$ ,  $-5 + 9 = 4$
7.  $HCF = a^3b^2c^6$ ,  $LCM = a^5b^9c^{10}d^9e^{11}f^{33}g^4$
8. 98
9.  $HCF = 4$ ,  $LCM = \frac{12576 \times 4052}{4} = 12739488$
10.  $\frac{6}{15} = \frac{2}{5}$  terminating.
12.  $7 \times 11 \times 13 + 13$   
 $= 13(77 + 1)$   
 $= 13 \times 78$   
 $\therefore$  It has 2 factors other than 1  
 $\therefore$  It is composite.
13.  $HCF = 3$
14. No.
15. mixed,  $3319/3300$