1. 1. The HCF of two numbers is 12. Which of the following can never be their LCM?  
   (A) 84  
   (B) 96  
   (C) 108  
   (D) 130
2. 2. The LCM of two numbers is 180. Which of the following can never be their HCF?  
   (A) 12  
   (B) 15  
   (C) 20  
   (D) 25
3. 3. Two numbers have HCF = 15 and their product is 3375. Which of the following cannot be their LCM?  
   (A) 225  
   (B) 240  
   (C) 300  
   (D) 315
4. 4. The HCF of three numbers is 6. Which of the following can never be a possible LCM for these three numbers?  
   (A) 126  
   (B) 150  
   (C) 168  
   (D) 174
5. 5. If HCF of two numbers is 14 and one number is 98, which of the following cannot be the other number?  
   (A) 42  
   (B) 56  
   (C) 70  
   (D) 84
6. 6. Two numbers are in the ratio 3:4 and their HCF is 8. Which of the following can never be their LCM?  
   (A) 72  
   (B) 88  
   (C) 96  
   (D) 144
7. 7. The LCM of two co-prime numbers is 143. Which of the following can never be one of the numbers?  
   (A) 11  
   (B) 13  
   (C) 22  
   (D) 143
8. 8. If HCF(a,b) = 18 and LCM(a,b) = 504, which of the following cannot be the value of a + b?  
   (A) 126  
   (B) 144  
   (C) 162  
   (D) 180
9. 9. Two numbers have HCF = 7. If their LCM is 7 times their HCF, which of the following relationships must be true?  
   (A) The numbers are consecutive  
   (B) One number divides the other  
   (C) The numbers are co-prime  
   (D) Both numbers are prime

10. The HCF of two numbers is 16 and their LCM is 240. If one number is 48, which of the following statements about the other number is false?  
(A) It is divisible by 16  
(B) It is less than 100  
(C) It is a multiple of 5  
(D) It is greater than 75