144 is the least number which when divided by the given numbers will leave remainder 0 in each case. But we need the least number that leaves remainder 7 in each case.

Therefore, the required number is 7 more than 144. The required least number = 144 + 7 = 151.



## EXERCISE 3.7

- Renu purchases two bags of fertiliser of weights 75 kg and 69 kg. Find the maximum
  value of weight which can measure the weight of the fertiliser exact number of times.
- 2. Three boys step off-together from the same spot. Their steps measure 63 cm, 70 cm and 77 cm respectively. What is the minimum distance each should cover so that all can cover the distance in complete steps?
- The length, breadth and height of a room are 825 cm, 675 cm and 450 cm respectively.Find the longest tape which can measure the three dimensions of the room exactly.
- Determine the smallest 3-digit number which is exactly divisible by 6, 8 and 12.
- Determine the greatest 3-digit number exactly divisible by 8, 10 and 12.
- 6. The traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds respectively. If they change simultaneously at 7 a.m., at what time will they change simultaneously again?
- Three tankers contain 403 litres, 434 litres and 465 litres of diesel respectively. Find
  the maximum capacity of a container that can measure the diesel of the three containers
  exact number of times.
- Find the least number which when divided by 6, 15 and 18 leave remainder 5 in each
  case.
- Find the smallest 4-digit number which is divisible by 18, 24 and 32.
- Find the LCM of the following numbers :
  - (a) 9 and 4 (b) 12 and 5 (c) 6 and 5 (d) 15 and 4
    Observe a common property in the obtained LCMs. Is LCM the product of two numbers in each case?
- Find the LCM of the following numbers in which one number is the factor of the other.
  - (a) 5, 20 (b) 6, 18 (c) 12, 48 (d) 9, 45 What do you observe in the results obtained?