6. Using fundamental theorem of arithmetic, find the H.C.F of 26, 51 and 91.

7. The HCF and LCM of two numbers are 9 and 90 respectively. If one number is 18, find the other.

8. Prove the following are irrational numbers

a) $5-\sqrt{3}$ b) $(3\sqrt{2})^2$ c) $\left(\frac{1}{\sqrt{2}}\right)^2$

3 MARKS :

1. Prove that $\sqrt{5}$ is an irrational number. **(March - 2019, 2023)**

2. Find the HCF and LCM of 26, 65 and 117, using prime factorisation. **(March - 2023)**

3. Three bells ring at intervals of 6, 12 and 18 minutes. If all the three bells rang at 6 a.m., when will they ring together again ? **(March - 2023)**

4. Prove that $3+7\sqrt{2}$ is an irrational number, given that $\sqrt{2}$ is an irrational number. **(March - 2023, 2018)**

5. Find by prime factorisation the LCM of the numbers 18180 and 7575. Also, find the HCF of the two numbers. **(March - 2023)**

6. Find the L.C.M and H.C.F of 404 and 96 and verify that L.C.M × H.C.F = Product of the two numbers. **(March, 2018)**

7. Two tankers contain 620 litres and 840 litres of diesel respectively. Find the maximum capacity of a container which can measure the diesel of both the tankers in exact number of times. **(March - 2014, 2015, 2016)**